

THE CONTRACT JOURNAL

INCORPORATING

THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

No. 4,203 81st YEAR

THURSDAY, JANUARY 14, 1960

PRICE 2/-

Buildmaster Cranes

—Still ahead

British built by

**RUSTON -
BUCYRUS**

BIGGER—BETTER & BRITISH BUILT

THE CRANE OF ADVANCED DESIGN ★

★ *The first Tower Crane built with Rectangular Hollow Section Tube*

Buildmaster Tower Cranes are being batch produced in the RUSTON-BUCYRUS works at Lincoln for delivery in the spring of 1960

DEMAND IS ALREADY HEAVY
ORDER **NOW** TO MINIMISE DELAY!

This photograph of one of the first
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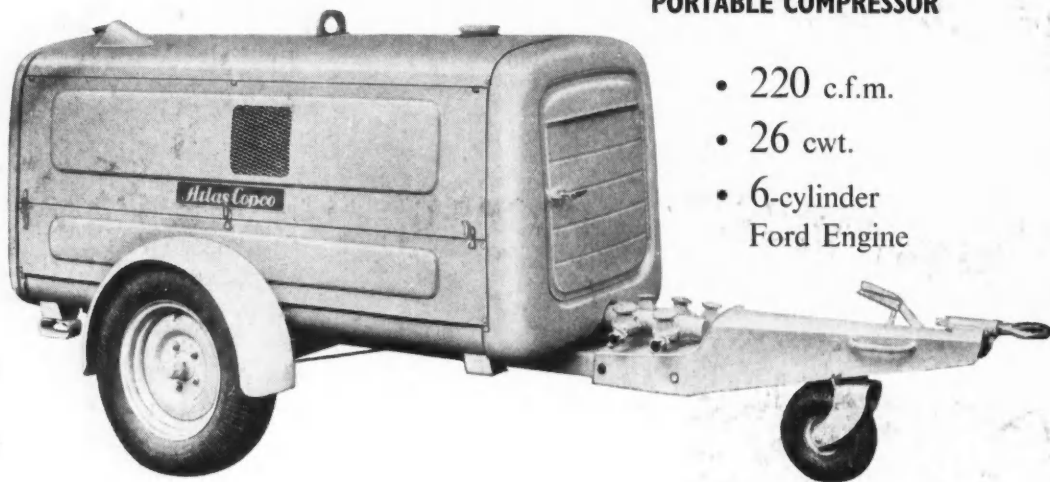
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Following the success of the sensational VT4

ATLAS COPCO introduce the **VT5**

PORTABLE COMPRESSOR



- 220 c.f.m.
- 26 cwt.
- 6-cylinder Ford Engine

HERE is another rugged, go-anywhere piston compressor in the successful VT range of portables. The VT5 is lighter and smaller than any other portable compressor—piston or rotary—of comparable output. Yet it supplies all the power you need: a guaranteed 220 c.f.m. at 100 p.s.i.—enough to operate four of the heaviest concrete breakers simultaneously.

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WITH THE VT4**

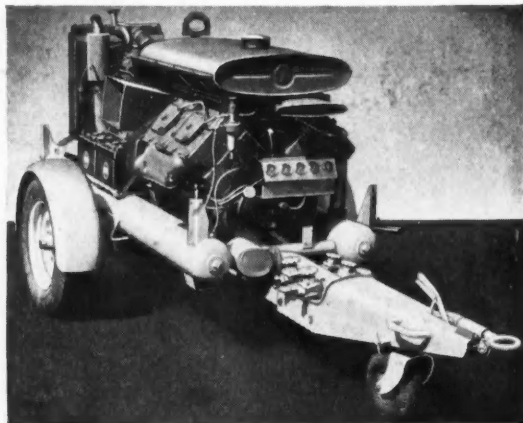
All VT compressors are built to the same simple basic design. They can be serviced, overhauled and reassembled by motor mechanics anywhere. Similarly the Ford engine ensures universal service facilities. Components are standard throughout the VT range so that both compressor and engine parts are interchangeable between the VT5 and smaller VT4.

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Quick, easy loading—with a built-in lifting eye at point of balance.

Fast, safe towing—with low-slung independent torsion bar suspension.

Easy manoeuvring on site—due to excellent balance and light weight.



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COMPRESSED AIR ENGINEERS

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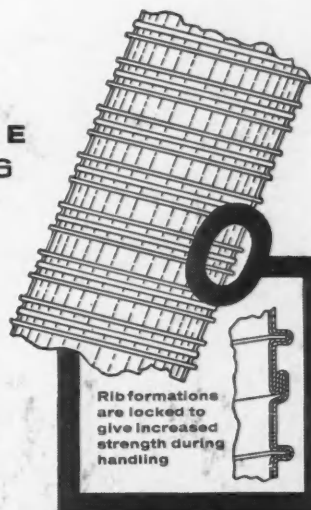
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**PRE-TENSIONED
OR
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**KOPEX PLIABLE
STEEL TUBING
(LOCKED-RIB)**

Bends easily without distortion of bore. Ribbed on the outside to give perfect bond with surrounding concrete. On drums or in coils and easily cut on site to required lengths.



Rib formations are locked to give increased strength during handling

**UNI-TUBE SEMI-RIGID
CONVOLUTED STEEL TUBING**

Made from strip steel, convoluted, spirally wound and locked to prevent splitting. Bonds perfectly with surrounding concrete, becoming an integral part of installation. Supplied in straight 20 ft. lengths which can be easily joined together with screw type connectors or in longer lengths in coils. Suitable for straight runs or parabolic curves.

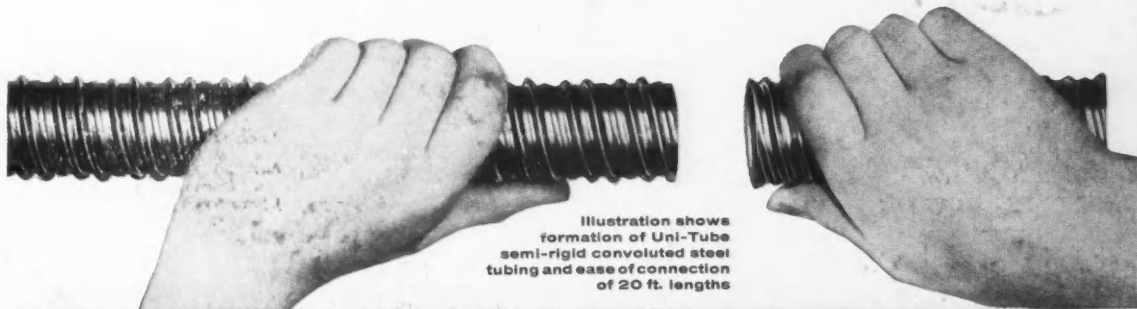


Illustration shows formation of Uni-Tube semi-rigid convoluted steel tubing and ease of connection of 20 ft. lengths

**UNI-TUBE RIGID
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Supplied in maximum 20 ft. lengths with separate connectors or with telescopic ends.



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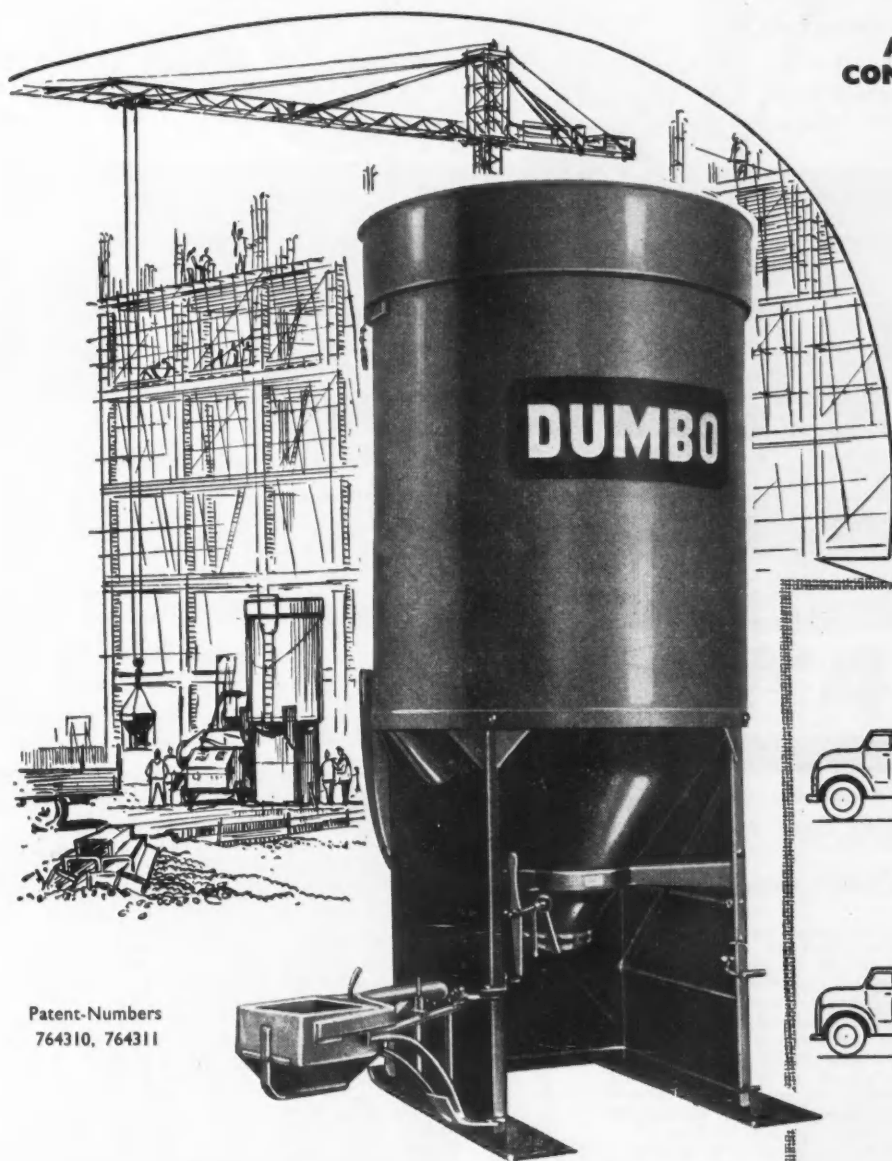
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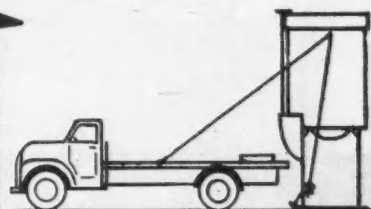
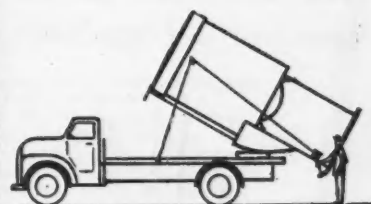
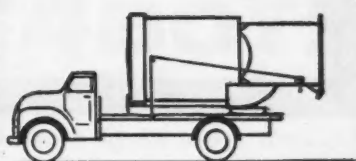


Patent-Numbers
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Outstanding-features include:

- ★ Fingertip control ★ 7 cu. ft. mixed batch capacity ★ All steel drum
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- ★ And pushbutton controlled scoop with power erected jib.

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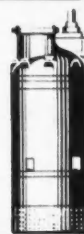
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Impeller gives up to 130 ft. Head.



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B. 38 L
1½ H.P. Weight 79 lb. Delivery 1½".
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40 G.P.M. at 20 ft. Head.

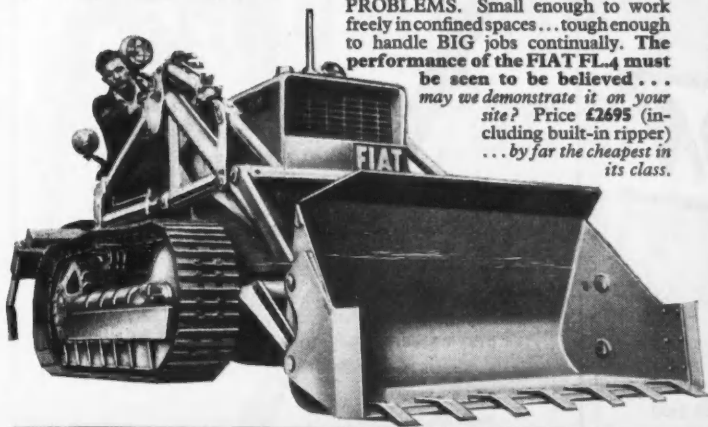


B. 38 L

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THE MACHINE OF THE FUTURE AVAILABLE TODAY

The best power-for-weight ratio of them all... 40 hp/4 tons. NO TRANSPORT PROBLEMS. Small enough to work freely in confined spaces... tough enough to handle BIG jobs continually. The performance of the FIAT FL4 must be seen to be believed... may we demonstrate it on your site? Price £2695 (including built-in ripper) ... by far the cheapest in its class.



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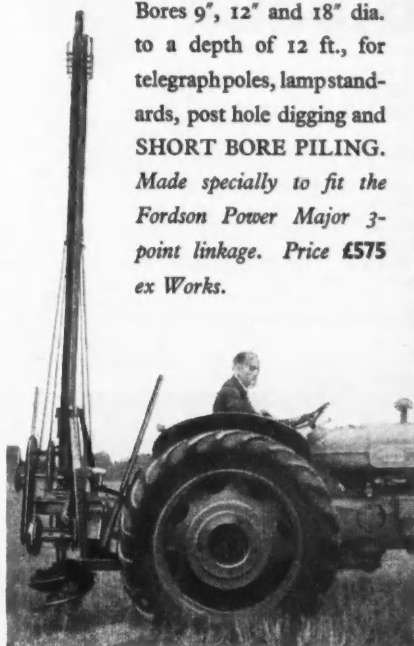
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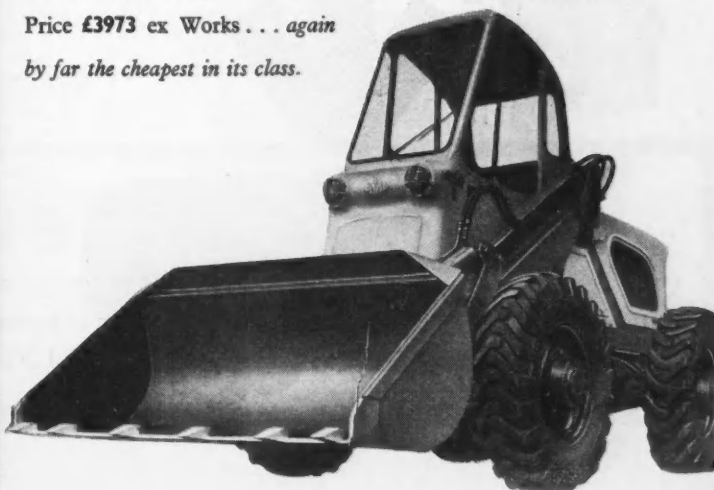
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The improved "Pendulum" collector with simple and sturdy high compression hydraulic ram will compress (for instance) over 24 cu. yd. of material into a 16 cu. yd. body. It packs *more* material—packs it *tight*—packs it *quickly*. And there's ample room on top for extra bulk material. These features add up to faster, more economic collection/dumping cycles — increase the amount of material which can be moved per day. And with simplicity of construction/operational details, far less time is required for maintenance.

ASK YOUR SECRETARY to write for leaflet P.C.2. It brings you full information on "Pendulum" operation, capacities, chassis, etc.

GIBSON

PENDULUM compressor refuse collector.

JOHN GIBSON & SON LTD.,

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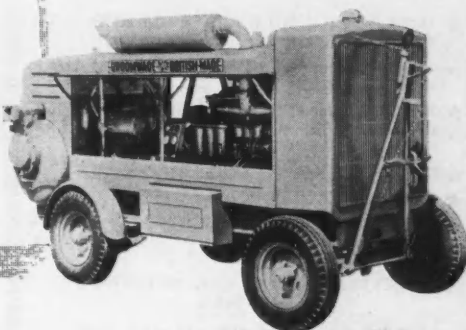
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WR630 PORTABLE ROTARY AIR COMPRESSOR PLANT

Delivers 630 c.f.m. at 100lb. per sq. in. pressure. Powered by Rolls-Royce Diesel Engine.



CB250 HAND HAMMER DRILL



Designed to drill up to 10-12ft. in hard rock, with Carbon Steel Bits. Capable of drilling deeper holes when fitted with tungsten Carbide tipped Bits. Delivers 2500 blows per minute.

CB268 HAND HAMMER DRILL



Has similar features to the BWD-230, but drills to considerably greater depths with jointed rods and tungsten Carbide tipped Bits. Delivers 2000 blows per minute.

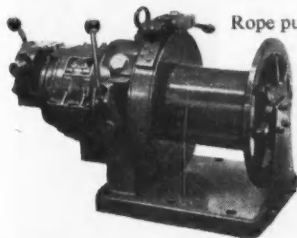
BWD230 HAND HAMMER DRILL



Designed to drill up to 8ft. in hard rock with normal Carbon Steel Bits. Through flush device gives powerful blow-out to keep holes clean. Delivers 2700 blows per minute.

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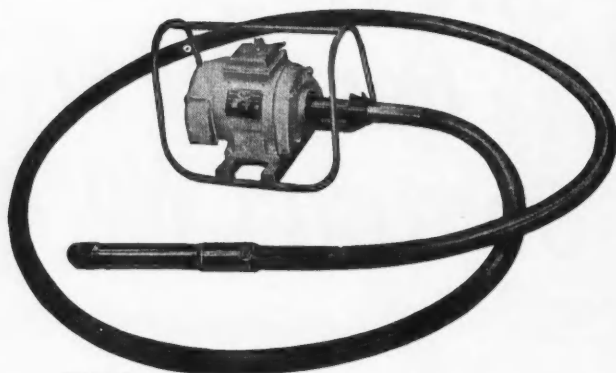
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ONE MAN

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NO HEATING • READY FOR USE

EASY TO APPLY • BRUSH OR FLOAT

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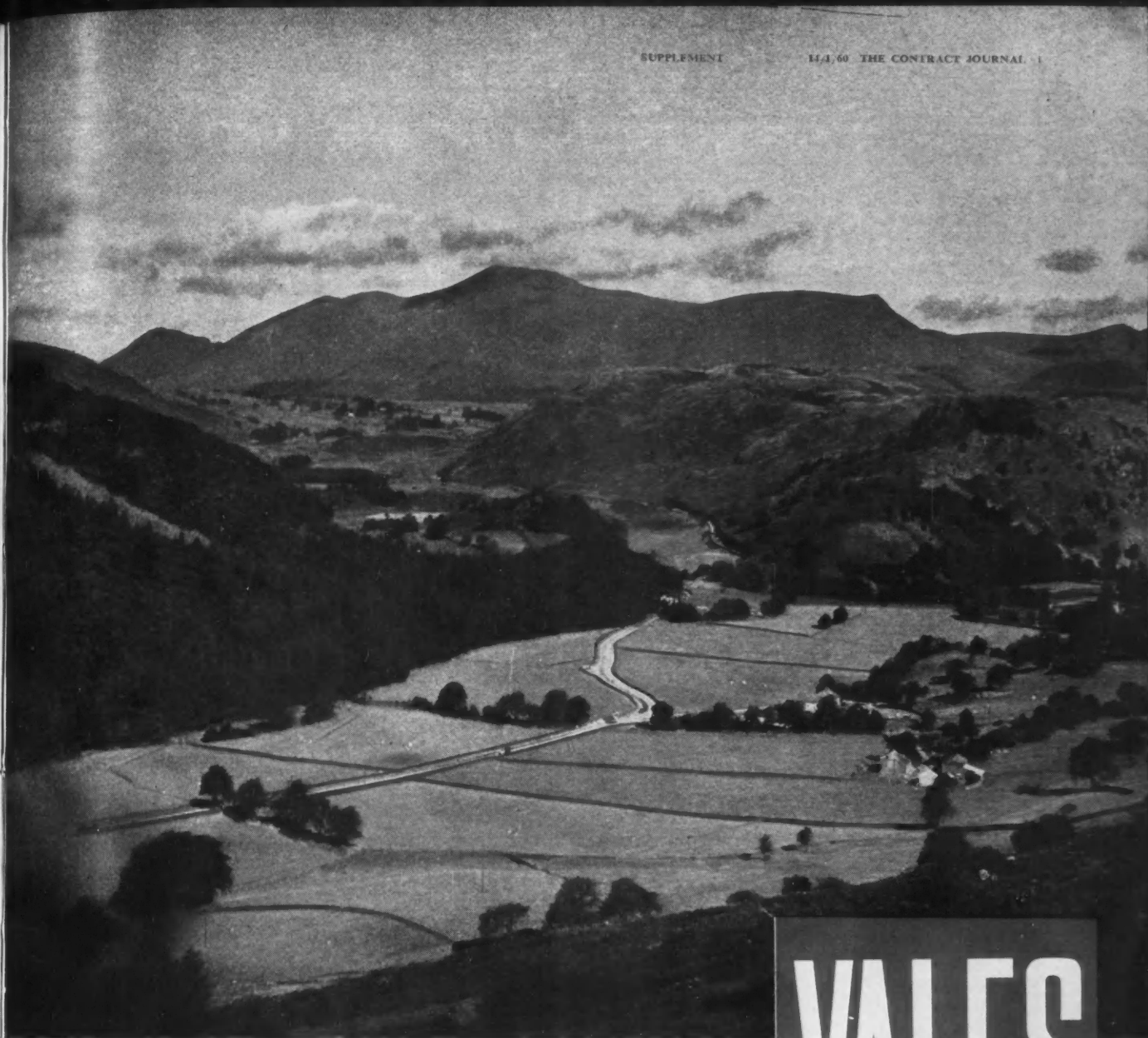
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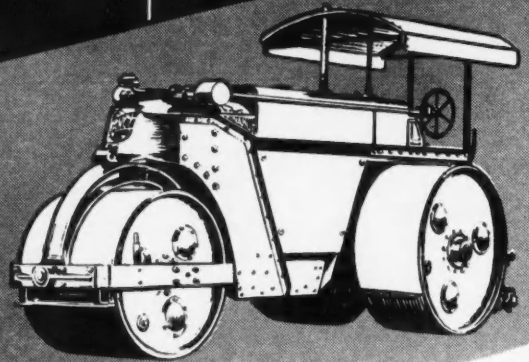
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Compressors of every
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Jones Mobile Cranes,
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telescopic strut chassis, simple operation, hydraulic height adjustment, versatility of service, excellent manoeuvrability, blade turnable in 180°, outstanding output capacity.

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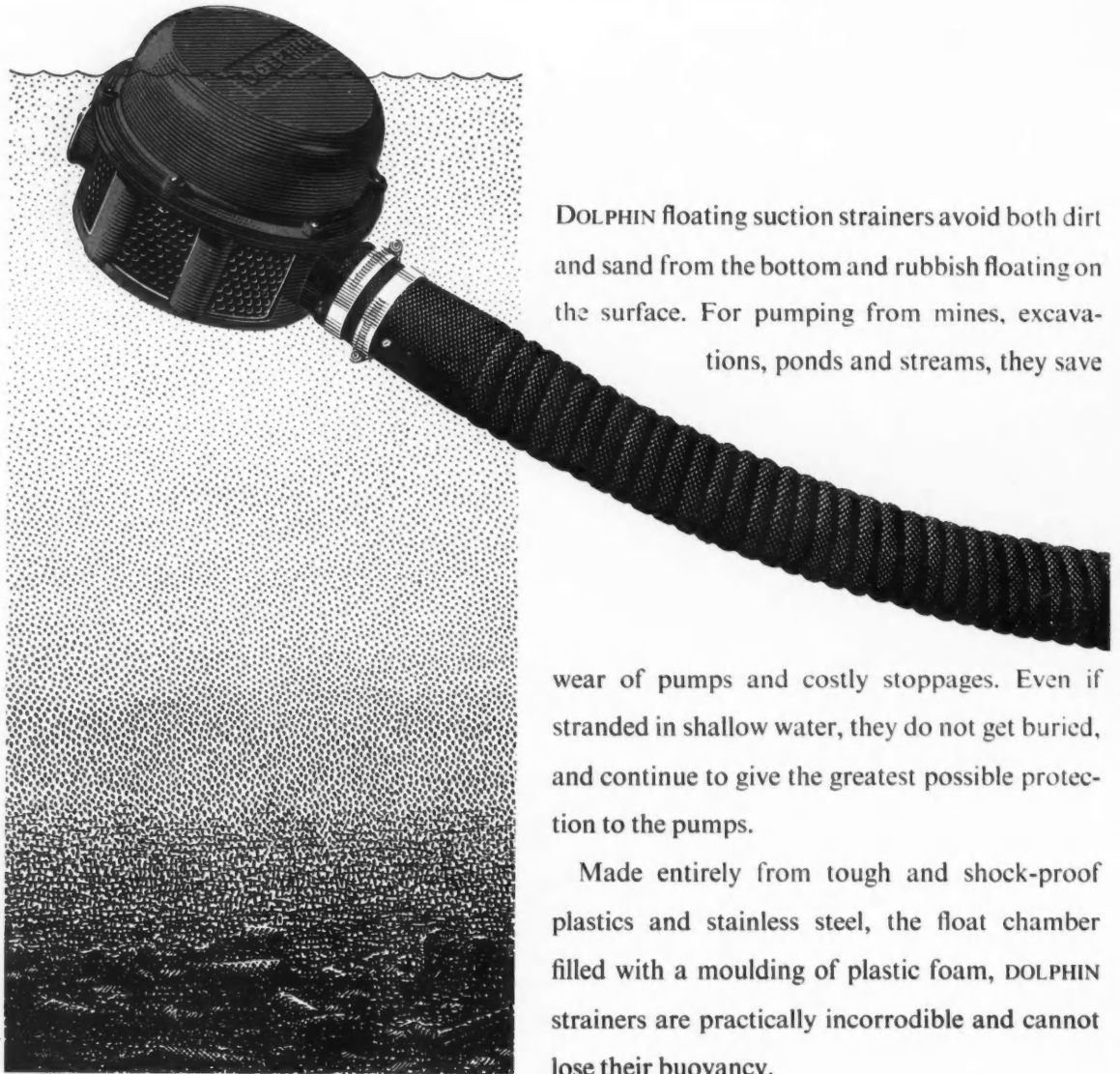
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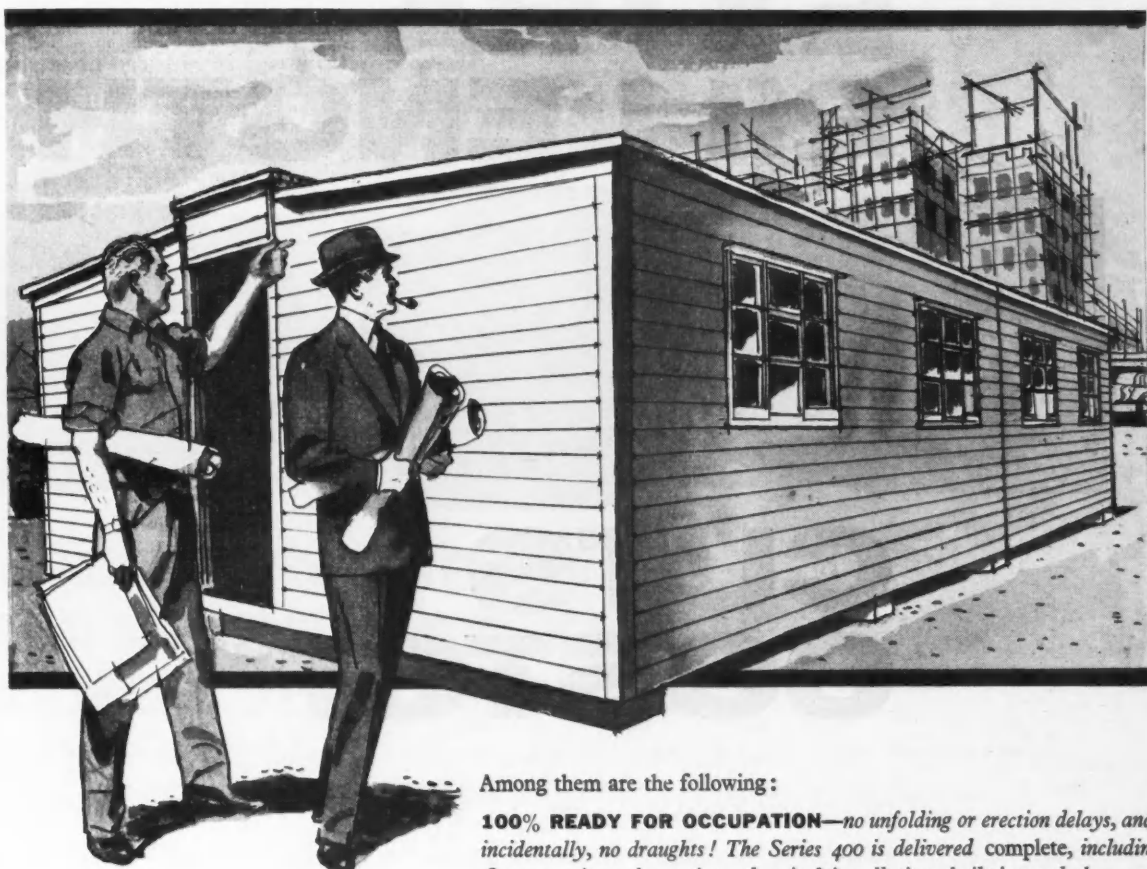
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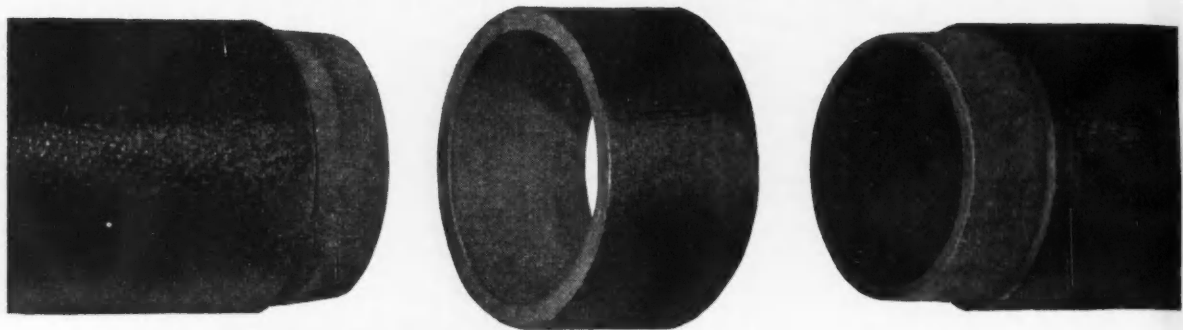


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CUTS COSTS!



Flexpipe -

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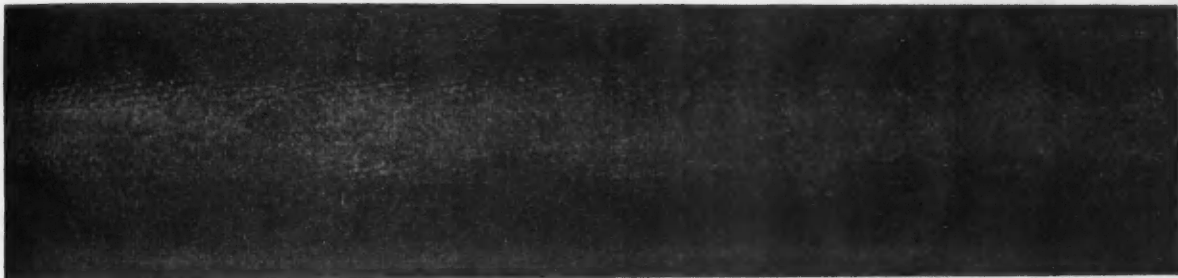
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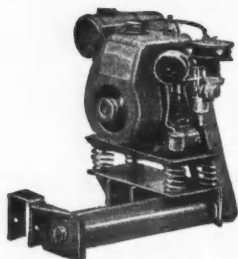
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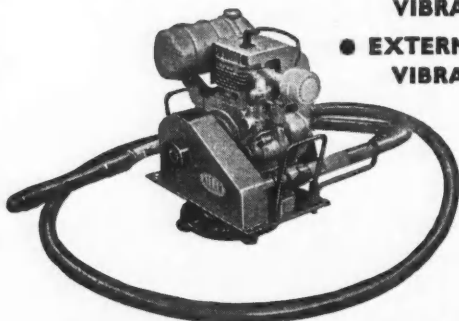
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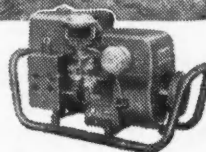


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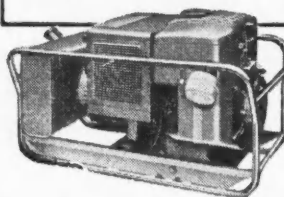
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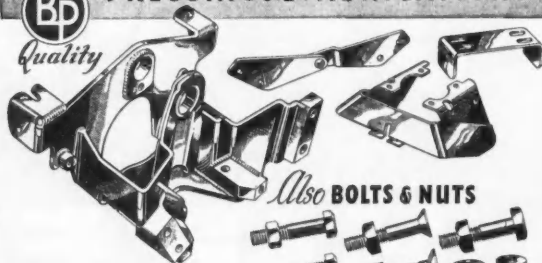
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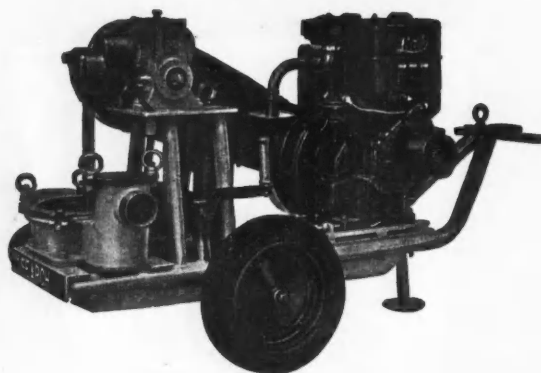


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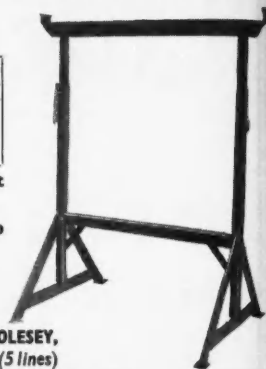
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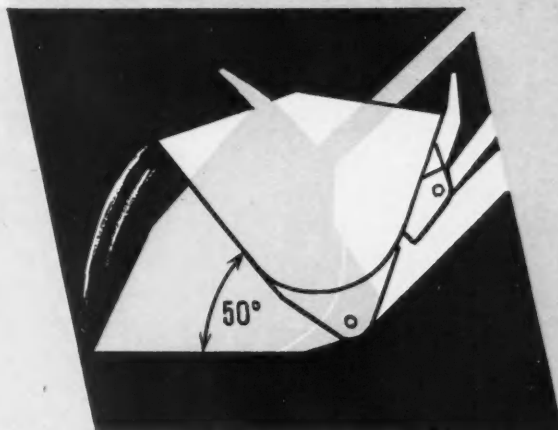
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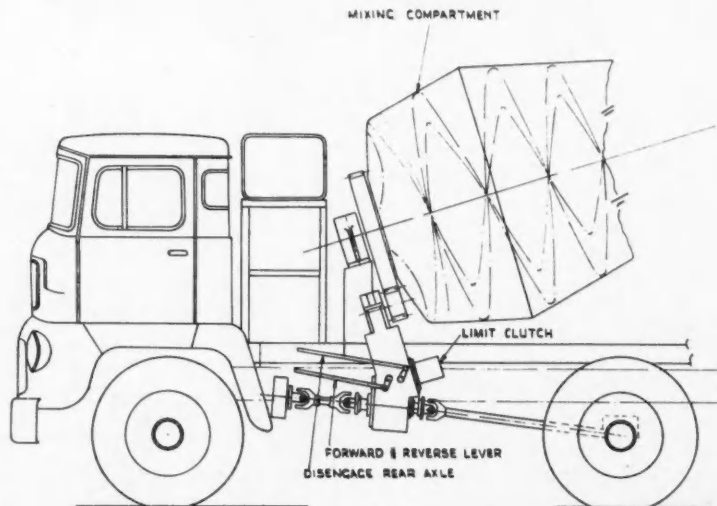
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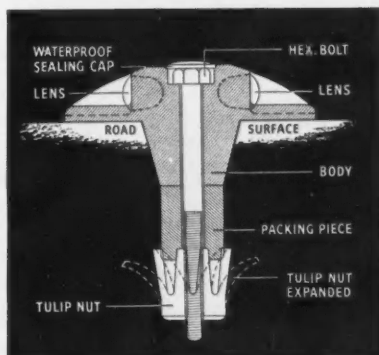


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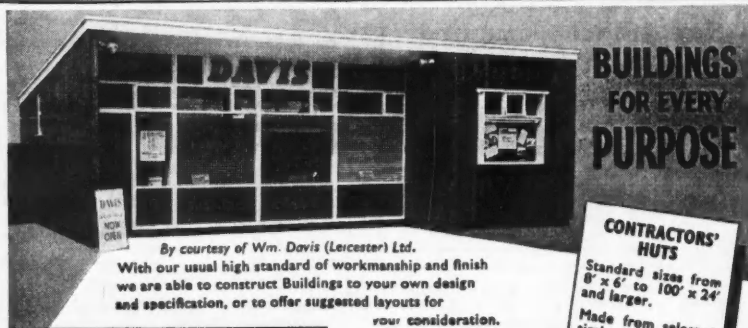
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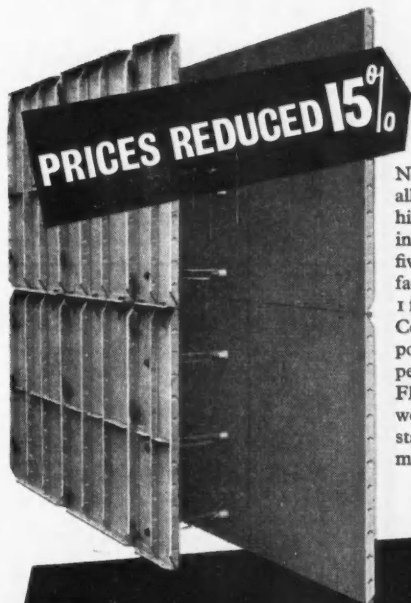
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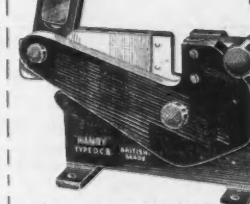
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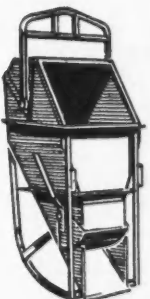
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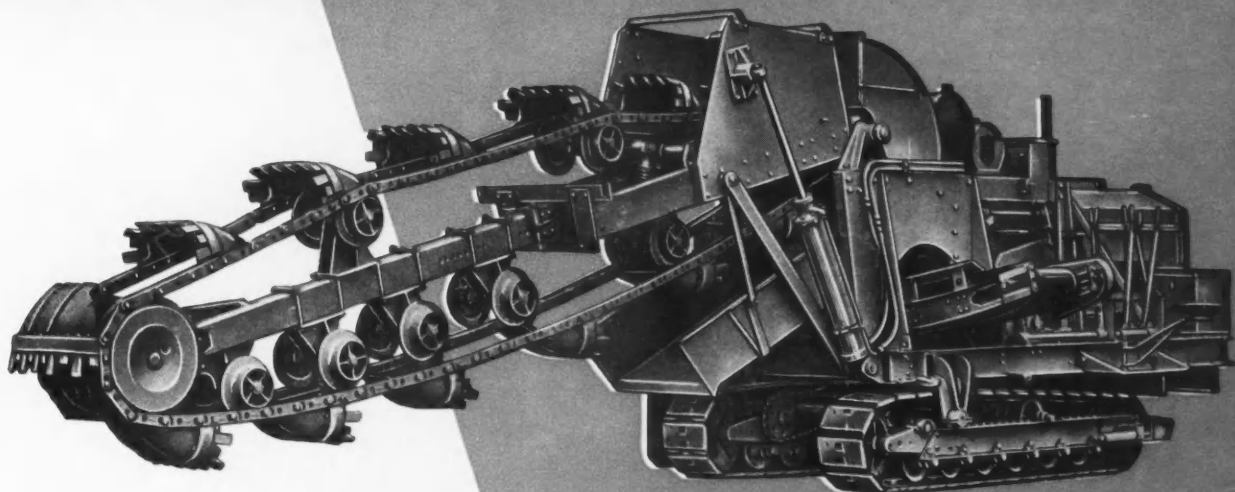
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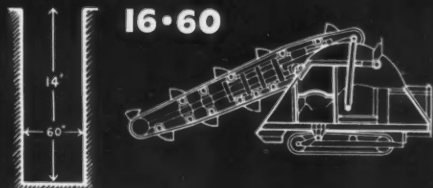
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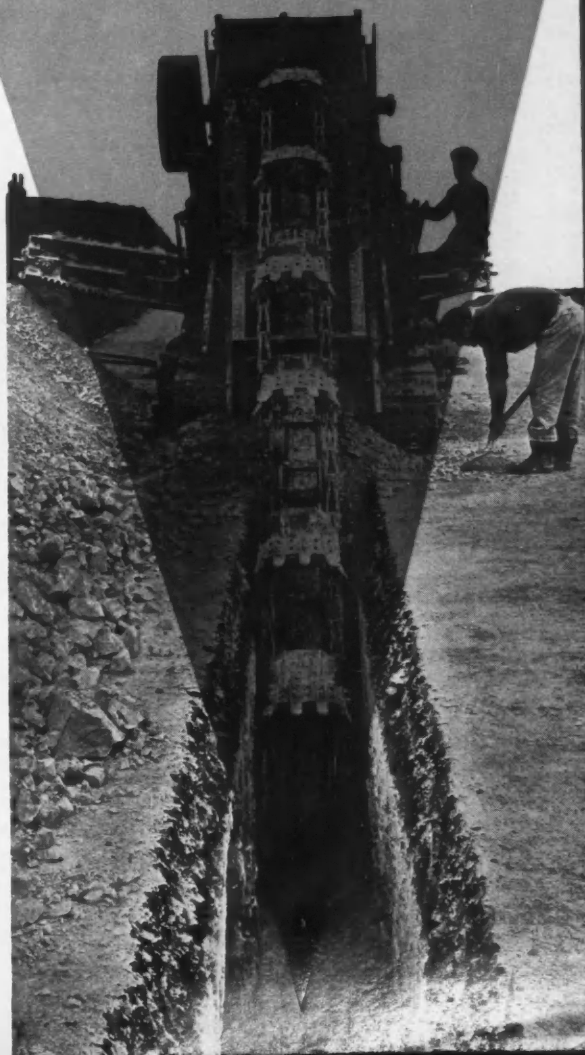
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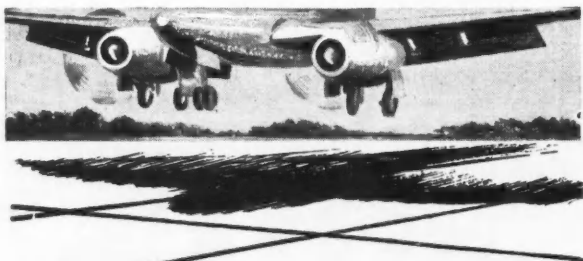
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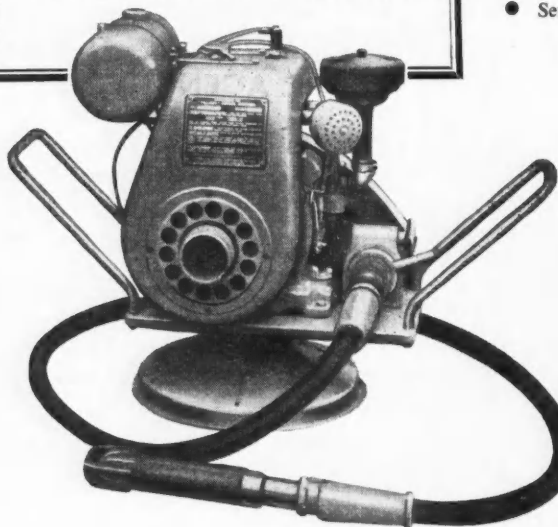
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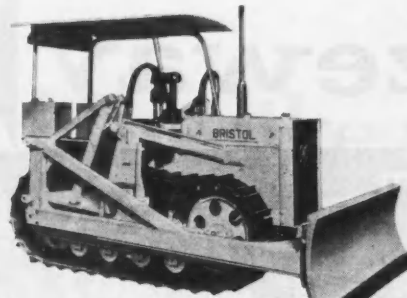
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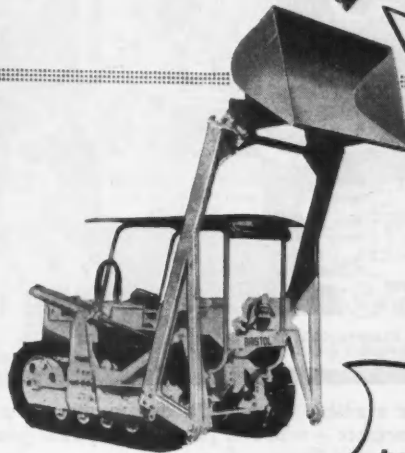
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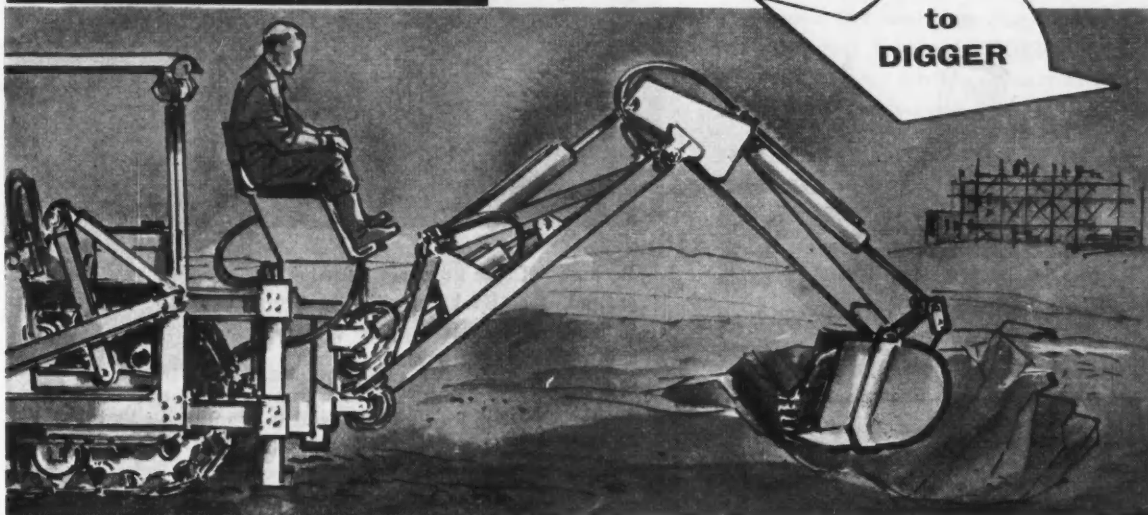
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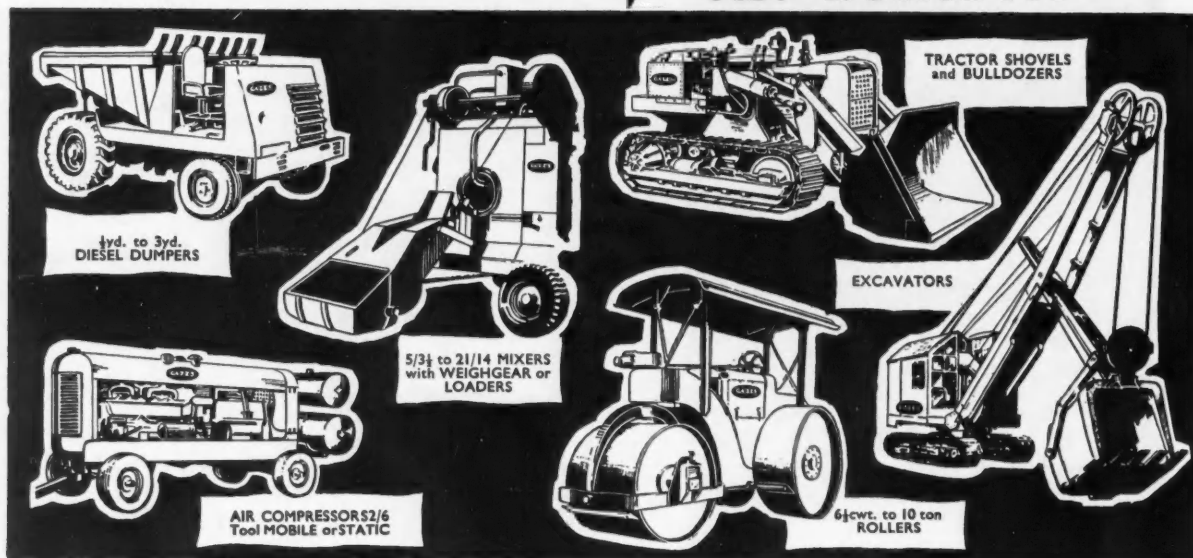
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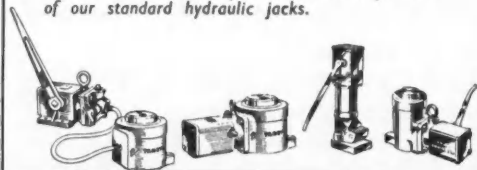
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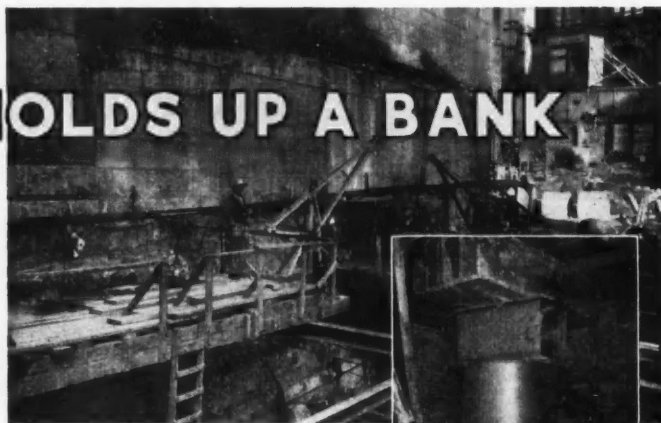
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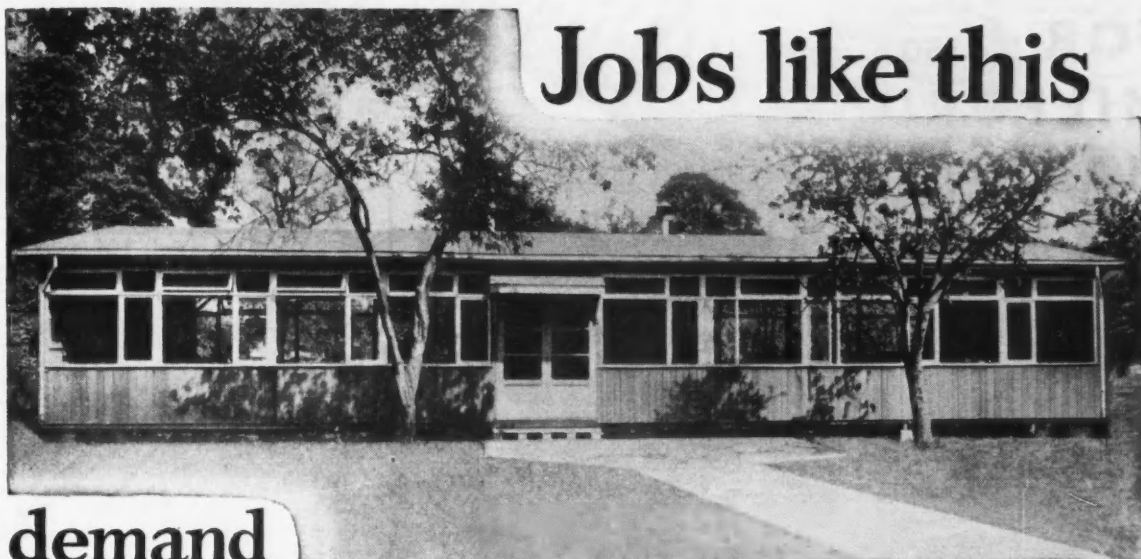
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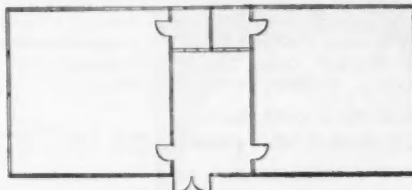


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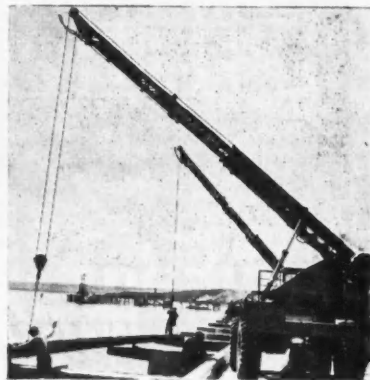
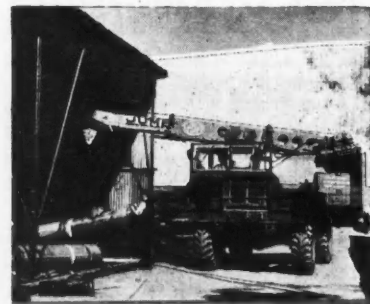
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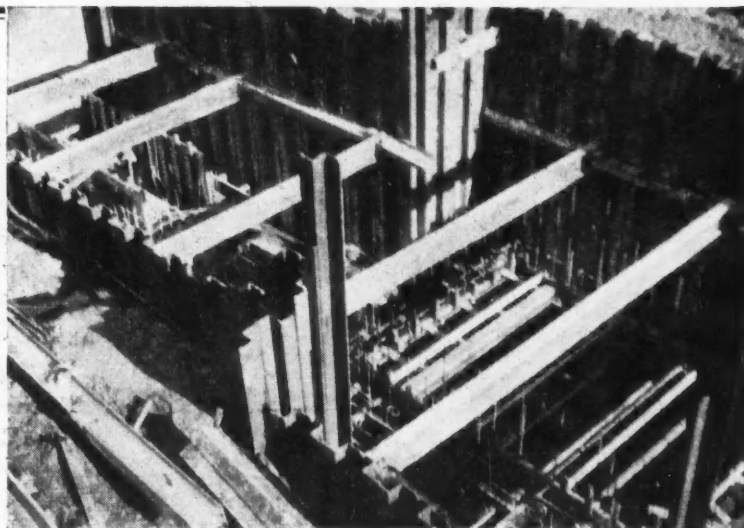
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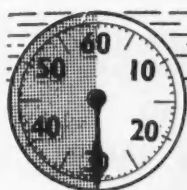


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Contractors portable model with integral mechanical weigher.

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When you install a Cumflow you are fitting a reliable piece of constructional equipment that has been tried and proved in over a quarter of a century of practical use. Cumflow concrete is absolutely unsurpassable. It gives strength... and maximum strength at that... in only 30 seconds of intensive *scientifically planned* mixing. The hourly output is governed only by the speed at which the mixer can be re-charged and as many as 80 batches per hour have been achieved. The saving effected by the Cumflow, using less cement and less water without loss of quality, can be tremendous.

Made in 6 sizes, from No. 0 size 2ft. 5½ ins. diameter pan with 2 cu. ft. input capacity to the No. 6 size 9 ft. 3 ins. diameter pan with 36/40cu. ft. input capacity.

SPOT-ON WEIGHING

Mechanical weigher can be fitted as an integral part of the machine and ensures accurate weighing.

MECHANICAL SHOVELLING

Another optional extra which saves labour.

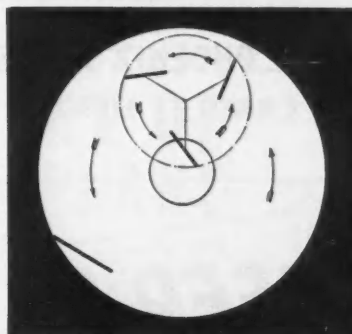
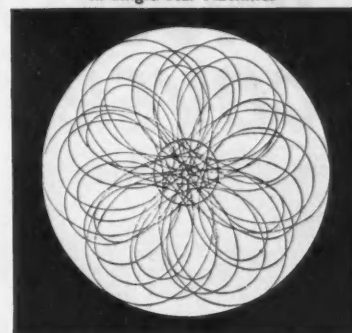


Diagram of Mixing Blades in Single Star Machine.



Showing Path of the Mixing Blade in one Revolution of the Pan.

25 years SUPERIORITY... still the best!

There is no other mixer as good as the Cumflow... not even another Liner Mixer! Here are some brief extracts from satisfied customers letters.

- 'We have had over 10,000 lbs. PER SQUARE INCH using ordinary cement'
- 'Our production INCREASED BY ONE THIRD'
- 'NO BETTER MIXERS for semi-dry and particularly abrasive mixes'
- 'Co-efficient of variation for the whole of 1956 was only 7.2%'
- 'Batches were going through at less than ONE MINUTE PER BATCH'
- 'Maintenance cost per ton of mixed concrete too small to be calculated'
- 'These machines work perfectly'
- 'It is the finest mixer obtainable'

Fuller extracts from letters can be seen on request.

HIRE PURCHASE TERMS . . . ONLY 10% DEPOSIT

Please send full details of Cumflow Mixer.

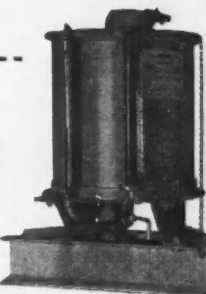
Name.....

Address.....

THE LINER CONCRETE MACHINERY CO. LTD.

Phone: Gateshead 72501 281, PARK ROAD, GATESHEAD, 8. Grams: "Liner, Gateshead"

London Office and Showrooms: Lexden Road, Acton, W.3. Phone: ACOrn 8931



and only LINER machines have the patented INVARAG WATER TANK for positive metering

BY APPOINTMENT
TO HER MAJESTY
THE QUEEN



MANUFACTURERS OF
CONCRETE BLOCK &
MIXING MACHINERY

CONTRACTORS' SHOVELS



*Any type of Handle
Supplied.*



★ Made from the best materials available and manufactured by Black Country Craftsmen.

Catalogue and Prices on request.

THE PHOENIX SHOVEL Co. Ltd.
CRADLEY HEATH · STAFFS

WIREWORK AND WOVEN WIRE

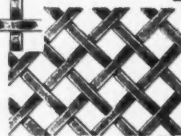
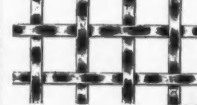


WOVEN WIRE

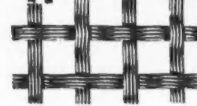
**F.W. POTTER
&
SOAR Ltd.**

**PHIPP STREET
LONDON, E.C.2.**

Telephone.
SHOREDITCH 9582



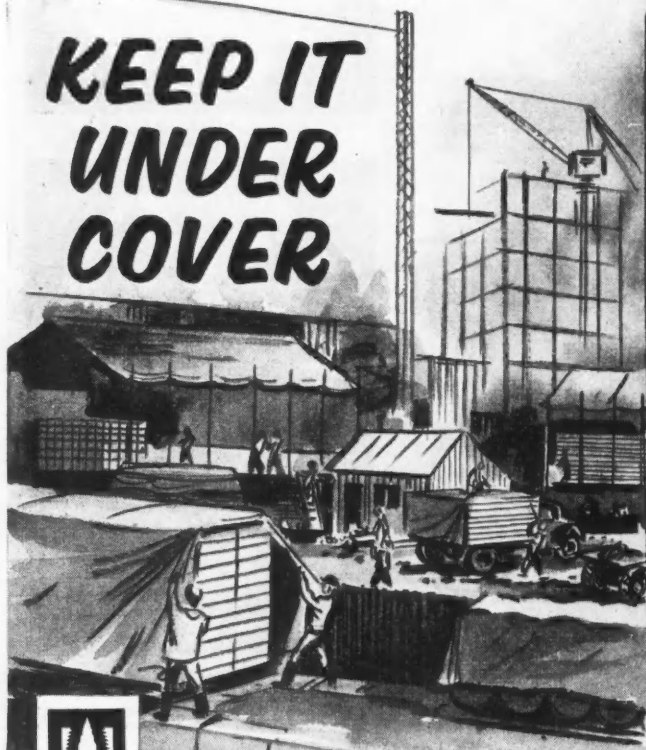
*Wire Weavers and Wireworkers
for over a century
and a quarter.*



We also make
**BRITISH STANDARD
TESTING SIEVES**

Write for our brochures

KEEP IT UNDER COVER



PROTECTION IS VITAL FOR MEN AND MATERIALS

Tarpaulins and all Canvas coverings must be rot and waterproof. WILLIAM SMITH'S POPLAR BRAND Tarpaulins give that all-the-year-round protection. We can also supply you with Lorry and Dust Sheets, Cordage and Canvas goods.

★ *Specialists in Textile Processing
against Mildew, Rot, Water and Flame.
Write or phone now to call in our
specialised service.*



WILLIAM SMITH (POPLAR) LTD

EAST HAM BY-PASS · LONDON E6

Phone: ALBERT Dock 3301

BULK EXCAVATION

problems solved!



Our MODERN FLEET OF EXCAVATION PLANT

including $7\frac{1}{2}$ cubic yard shovels, 22 ton Euclids and Rubber Tyred Scrapers is capable of a high weekly output. We welcome enquiries from contractors engaged on Major Road Contracts and other work offering

BULK EXCAVATION

Consult

MARTIN COWLEY LTD

CLAY CROSS • DERBYSHIRE

Telephone • 2291 (5 lines)

London Office:

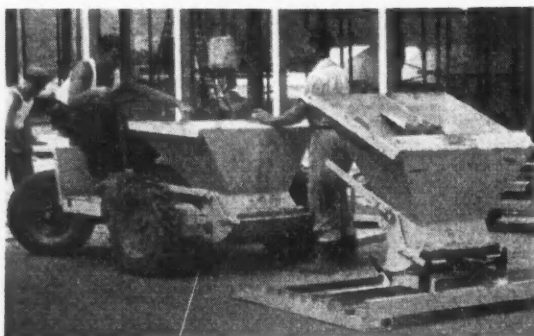
112 JERMYN ST. LONDON, S.W.1.

Telephone: WHITEHALL 3282 (3 Lines)

*Building and Civil
Engineering Contractors*

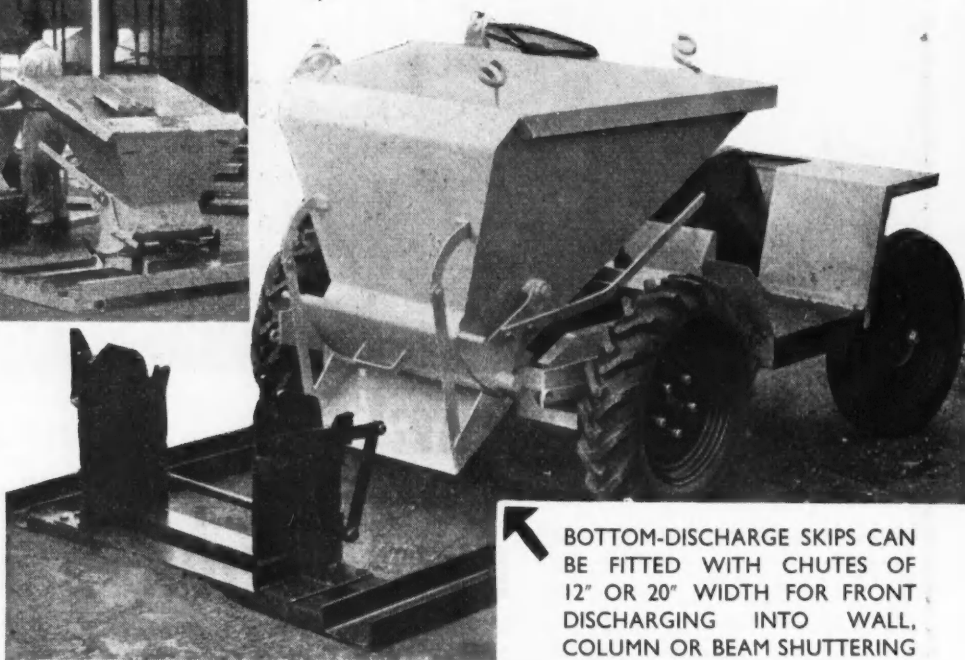
The CONGREVE

FROM THIS



CONVERTIBLE

TO
THIS...
(OR VICE VERSA)



← BOTTOM-DISCHARGE SKIPS CAN BE FITTED WITH CHUTES OF 12" OR 20" WIDTH FOR FRONT DISCHARGING INTO WALL, COLUMN OR BEAM SHUTTERING

ON THE SITE—IN LESS THAN TEN MINUTES!
NO SKILL REQUIRED



Made by **SLATER & ENGLAND LTD.**
THE ORIGINATORS OF BRITISH ONE YARD DIESEL DUMPERS

WHEN OPERATED AS ABOVE ONE SKIP OF CONCRETE IS BEING PLACED WHILST THE DUMPER FETCHES ANOTHER BATCH IN A SECOND SKIP, TO MAINTAIN A QUICK, CONTINUOUS CYCLE.

**TWO
SIZES**

15 cwt. & "ONE-YARD"
To operate with mixers
from 10/7 to 21/14

PRICES from £379

(depending on size and equipment)
CARRIAGE PAID, ENGLAND & WALES

SALES & SERVICE AGENTS IN MOST AREAS

Please Write or Phone the Distributors for Free Demonstration Loan

DISTRIBUTORS: KEBRIC PLANT LTD.

2 to 6 THE MEAD, CARPENDERS PARK, WATFORD, HERTS.

Phone: HATCH END 6221/3

CASWELL DESIGN

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CRANES AND SPECIAL LIFTING

EQUIPMENT — ANY CAPACITY

CASWELL ERECT

STEELWORK, PLANT, GAS MAINS,

MACHINERY — ALL TYPES OF

CRANES AND PRECAST CONCRETE

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MID. 7063/4

CEMENT IN BULK IS BEST BY SCAMMELL TANKER



The outstanding success achieved by Scammell articulated vehicles is once again demonstrated by their pressurised tanker for transporting cement in bulk.

Ribblesdale Cement Ltd., are one of the many operators who enjoy the advantages which these unique vehicles offer—speedy deliveries, reduced handling charges and absolute reliability.

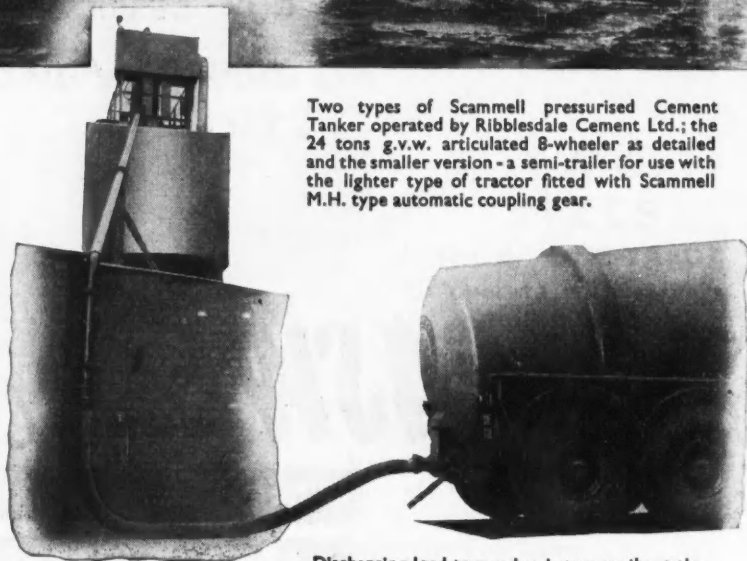
If your concern is the transportation of cement or any other type of powdery material now is the time to consult us. Using the vehicle's own compressor, loads can be discharged through pipeline to a distance of 1,000ft. horizontally or 100ft. vertically and Scammell automatic couplings enable the semi-trailers to be instantaneously detached and used as temporary storage containers without immobilising the motive unit.

The Scammell range includes tankers, machinery transporters, dump trucks, tractors and semi-trailers for loads varying from 3 tons to 150 tons and facilities are available for designing and producing the vehicles to suit individual requirements and operating conditions.

FEATURES

- Tank capacity 495 cu. ft. or 14 cu. metres.
- Tank shell of boiler quality m.s. plate pressure tested to 90 lbs. p.s.i.
- Water jacketed rotary compressor with air separator driven from power take-off on motive unit. Compressor connected to engine cooling system.
- Internal arrangements for aerating load by air pressure supplemented by separately controlled air line to outlet chute and 4" discharge valve.
- Complete discharge of load at rate of one ton per minute.
- 6-cylinder diesel engine, Scammell 6-speed gearbox and double reduction epicyclic driving axle.

Two types of Scammell pressurised Cement Tanker operated by Ribblesdale Cement Ltd.; the 24 tons g.v.w. articulated 8-wheeler as detailed and the smaller version - a semi-trailer for use with the lighter type of tractor fitted with Scammell M.H. type automatic coupling gear.



Discharging load to overhead storage silo at the rate of one ton per minute.

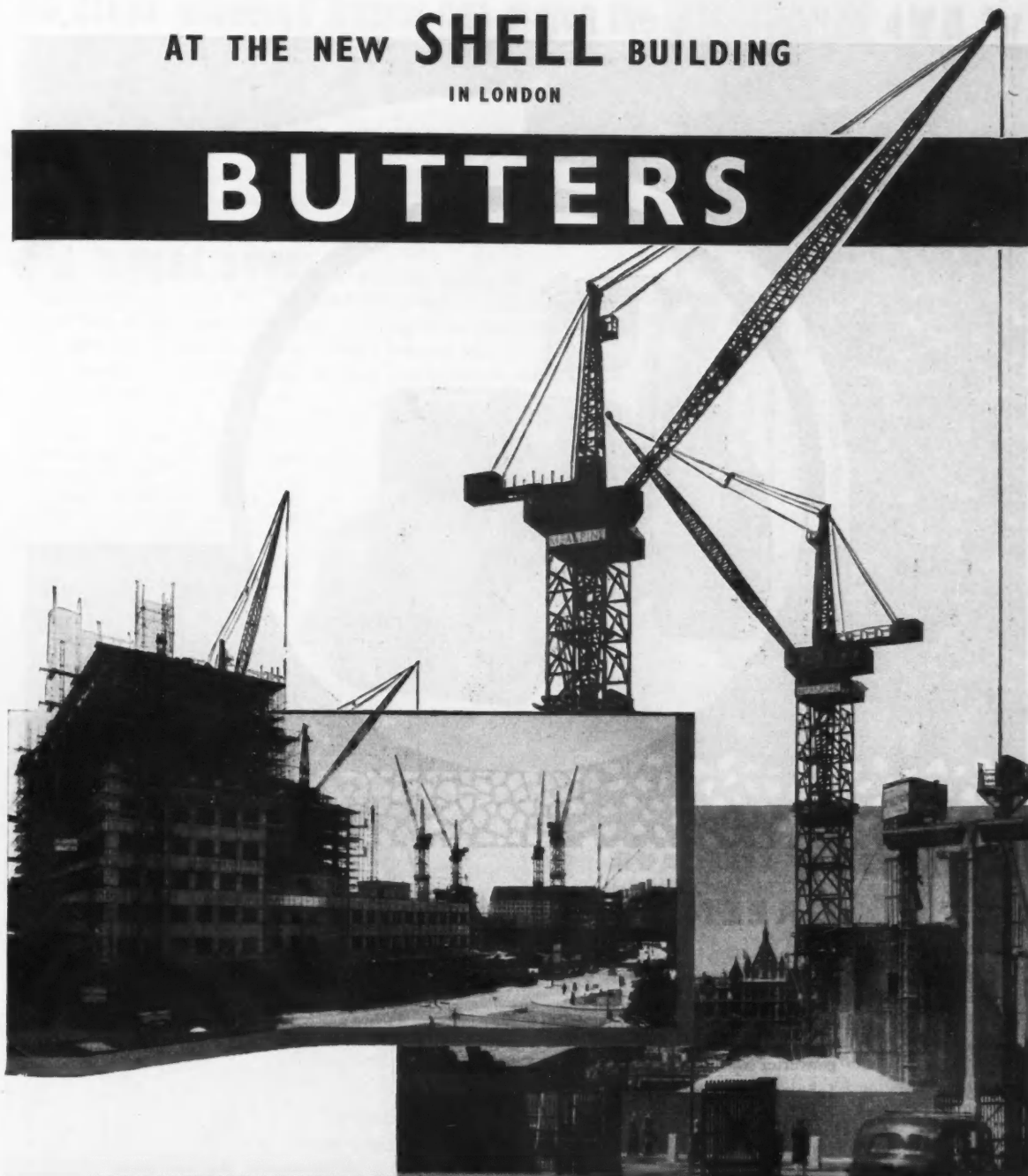
SCAMMELL LORRIES LTD.

Head Office & Works: WATFORD, HERTS.

Telephone: Watford 25231 & 25691

AT THE NEW **SHELL** BUILDING
IN LONDON

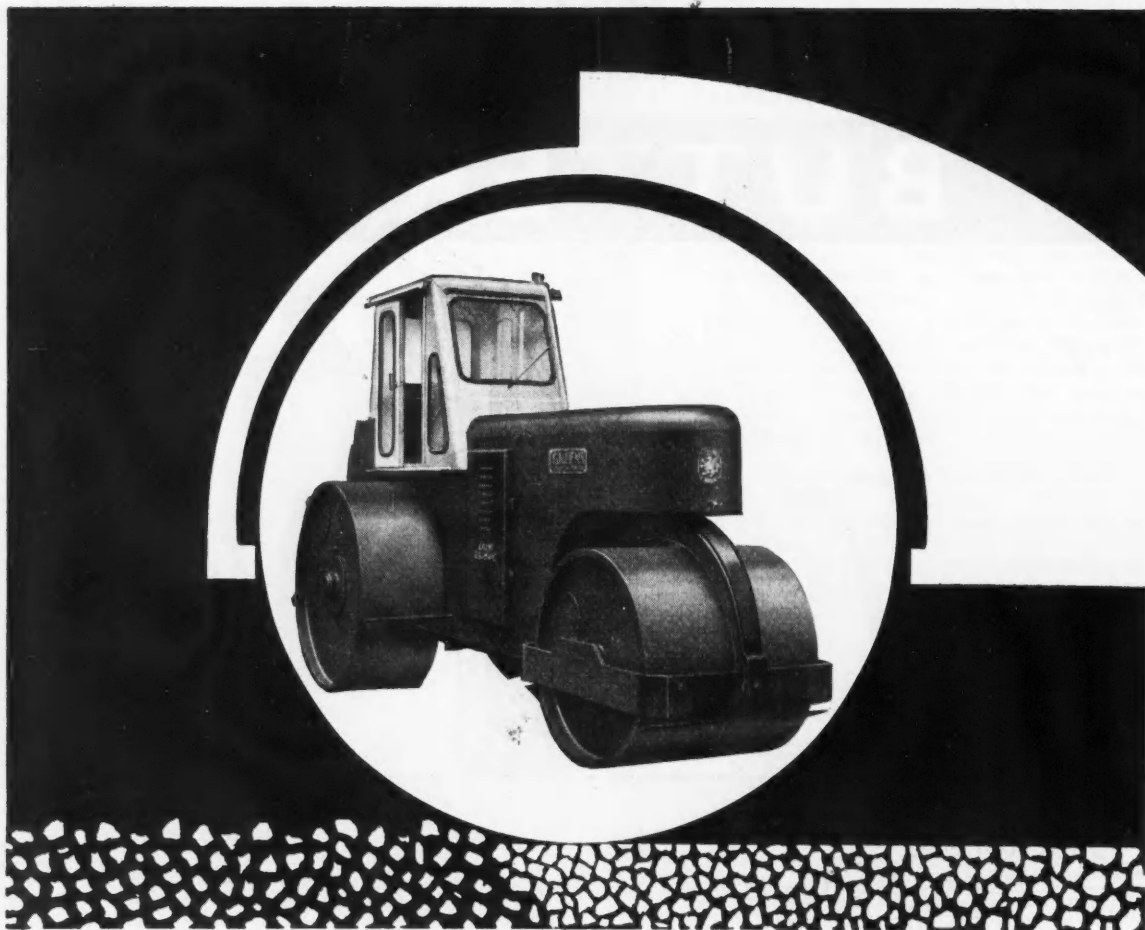
BUTTERS



MONOTOWERS

Six of our standard 5 ton monotower cranes are in use by Sir Robert McAlpine & Sons who are erecting the building. These cranes have been used on many contracts, being easily erected and dismantled, and are completely safe and highly reliable.

BUTTERS BROS. & CO. LTD., MACLELLAN STREET, GLASGOW, S.I. And at LONDON, BIRMINGHAM & NEWCASTLE



GREENS Eddimatic roller

Britain's first road roller with torque converter giving smoothness, flexibility, versatility as never before available in heavy road rollers. Electric starting, torque converter for controlled travel in forward and reverse directions. Infinitely variable speed range up to 5 m.p.h. Steel plate rolls of ballast pattern for variable pressures for surface rolling and consolidation. Roller with unique fuel storage system to ensure clean fuel and to eliminate wastage. Enclosed cabin, water tank and sprinklers, standard equipment. Two-tine scarifier, extra.



"Greens Griffin"
Regd. Trade Mark

GREENS Griffin Rollers

OUR RANGE INCLUDES TRADITIONAL ROLLERS FROM 11 CWT. TO 13 TONS

Thomas Green & Son Ltd., Smithfield Ironworks, Leeds 2 Phone: Leeds 20357 (4 lines). Telegrams: Smithfield, Leeds
New Surrey Works, Southwark Street, London S.E.1 Phone: WATERloo 4301. Telegrams: New Surrey Works, London

No other wheeled tractor can match the

high work/cost ratio, manoeuvrability

and rugged power...

Power plus Mobility plus extreme Manoeuvrability make the **ROADLESS 4 W.D. ANGLEDZER** a most valuable machine for Builders, Civil Engineers, Earth Moving Contractors, etc. Faster on the job... faster between jobs (*the drive to the front wheels can be disengaged and the machine driven on the public highway, saving the cost of a transporter*)

Brief Specification:

POWER UNIT: Fordson Power Major engine developing 51.8 b.h.p.

OVERALL DIMENSIONS: Length 14ft. Width 7ft. Height, without cab 5ft. 6ins. with cab 7ft. 9ins.

WEIGHT: 4 tons 14cwt. 7lb.

BLADE: 7ft. wide x 28ins. deep with renewable cutting edge. Maximum lift 2ft. above tyre level. Maximum dig 6ins. below tyre level. Angle 25 degrees to either side.

STANDARD EQUIPMENT: Lights, Front wheel weights, 9 x 24-4 ply front tyres, 11 x 36-6 ply rear tyres. Heavy duty clutch. Hand brake and Engine hour meter.

MANUEL-ROADLESS
PATENTED

4

WHEEL
DRIVE

4 W.D. for

and speed,



ROADLESS TRACTION LTD.
HOUNSLOW, MIDDLESEX
Telephone: HOUnslow 6421

★ Marketed by: Bray Construction Equipment Ltd. of Faggs Road, Feltham, Middlesex (Tel: 3471) who will be happy to demonstrate the capabilities and versatility of the **ROADLESS 4 W.D. ANGLEDZER** on your own site, without obligation.



THE SHERMAN TRENCHER OUTPACES THEM ALL!

What a magnificent time-and-money saver! The Sherman Trencher outpaces any other on the market, and yet needs only 14 h.p. for peak efficiency operation. And it can easily be coupled or uncoupled in minutes, freeing your tractor sooner and giving greater interchangeability of units.

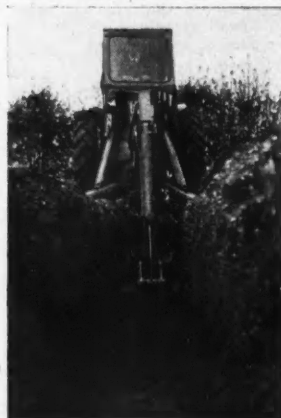
**SOLE DISTRIBUTORS FOR THE
SHERMAN TRENCHER in the following areas:
LONDON • MIDDLESEX • HERTFORDSHIRE • ESSEX & KENT**

Call personally or telephone VIKING 3651 for full technical information or better still see the machine in action. We will arrange a demonstration on your own site.

GREENHAM EQUIPMENTS LIMITED

CLAYTON ROAD • RUISLIP ROAD • GREENFORD • MIDDLESEX Tel: VIKing 3651

A MEMBER OF THE GREENHAM GROUP



CONTRACTS

BOROUGH OF MOSSLEY.

ROAD RESURFACING WORKS.

TENDERS are invited for the SUPPLY, DELIVERY and LAYING of approx. 7,500 super. yd. of Two-course Bituminous Macadam, to be used for the SURFACING of CARRHILL ROAD and MICKLEHURST ROAD, Mossley.

Contractors wishing to Tender should apply to the Borough Engineer and Surveyor, Town Hall, Mossley, for Specification, Schedule and Form of Tender, enclosing a deposit of £2 2s., which will be returned upon receipt of a bona-fide Tender.

Tenders to be forwarded to the undersigned in a plain sealed envelope not later than Noon on the 27th JANUARY, 1960, endorsed "Resurfacing Contract."

The Corporation does not bind itself to accept the lowest or any Tender.

V. C. PROCTER,
Town Clerk.

38 Manchester Road,
Mossley.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

NEW TOWN HALL.

The CITY COUNCIL invites specialist contractors possessing substantial organisation who are willing to submit a FIRM-PRICE TENDER for the FOLLOWING:

- (a) Heating, Ventilating, Hot- and Cold-water Service Installation; and
- (b) Electrical Installation;

in the new Town Hall, and who wish to be considered for inclusion in a selected list of tenderers, to apply in writing, in the first instance, to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, for particulars of the scope and magnitude of the work to be carried out.

Initial applications for more detailed information as to the work should reach the City Architect not later than 23rd January, 1960.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1,
30th December, 1959.

CITY OF OXFORD.

ELSFIELD WAY SUBWAY.

TENDERS are invited for the CONSTRUCTION of the ELSFIELD WAY SUBWAY under the NORTHERN BY-PASS A.40.

The Work involves the Construction of:—
118ft. of Reinforced Concrete Subway Tunnel.
97ft. of Reinforced Concrete Single Entrance Ramp and
95ft. of Reinforced Concrete Double Entrance Ramp.

300 lin. yd. 12in. Drain Surface Water Sewer. Site Clearance and ancillary Works.

Detailed Drawings may be inspected at the Office of the City Engineer, Town Hall, Oxford, by appointment between the hours of 9 a.m. and 5 p.m. on any weekday except Saturday.

Form of Tender, Specification, etc., may be obtained from the City Engineer, and Tenders must be returned not later than 12 Noon on 1st FEBRUARY, 1960, in a plain sealed envelope addressed to the Town Clerk, P.O. Box No. 7, Town Hall, Oxford, and endorsed "Tender—Elsfield Way Subway."

The Council does not bind itself to accept the lowest or any Tender.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford,
21st December, 1959.

WOKING URBAN DISTRICT COUNCIL.

ERECTION OF FOUR FLATS.

GOLDSWORTH ROAD AND KINGSWAY, WOKING.

Applications invited from building contractors for Bills of Quantities, to be submitted to ENGINEER AND SURVEYOR, Council Offices, Guildford Road, Woking, Surrey, by 18th January, 1960, accompanied by deposit of Two Guineas, refundable on receipt bona-fide Tender not subsequently withdrawn.

Date of submission of Tenders: 12 Noon, FRIDAY, 26th February, 1960.

AYLESBURY RURAL DISTRICT COUNCIL.

GRENDON UNDERWOOD SEWERAGE AND SEWAGE DISPOSAL SCHEME.

The above-named Council invite TENDERS from experienced and responsible contractors for the CONSTRUCTION of the FOLLOWING WORKS:

- (a) About 4,000yd. of 9in. and 6in. dia. Sewers and Manholes.
- (b) Sewage Disposal Works, including Site Pumping Station, Balancing Tank, Settlement Tank, Filter Beds, Humus Tanks, Sludge Drying Beds, and ancillary works.

Drawings, Specifications and Bill of Quantities can be seen at the Offices of the Council's Consulting Engineers, MESSRS. ELLIOTT AND BROWN, Stanley House, Pelham Road, Nottingham, and copies of the Plan, Specification and Bill of Quantities can be obtained from them on or after Monday, 4th January, 1960, on deposit of Five Guineas, by cheque payable to the Aylesbury R.D.C., which will be refunded on receipt of a bona-fide Tender, not afterwards withdrawn, and the return of all documents loaned the contractor for the purpose of making up his Tender, within seven days of a notice informing him that a Tender has been accepted.

Sealed Tenders, endorsed "Grendon Underwood Sewerage," to be delivered to the undersigned, in a plain sealed envelope, not later than the First Post on TUESDAY, 26th January, 1960.

The lowest or any Tender will not necessarily be accepted.

Copies of the Contract Drawings may be inspected at the Offices of the Council's Surveyor, during normal office hours, by appointment.

A. EDGAR TOY,
Clerk of the Council.

Council Offices,
43 Buckingham Street,
Aylesbury, Bucks.

MID- AND SOUTH-EAST CHESHIRE WATER BOARD.

TENDERS are invited for the CONSTRUCTION of a ROOF to an EXISTING SERVICE RESERVOIR at HARTFORD, using Laminated Timber Beams Supporting Corrugated Aluminium Sheetings.

Tender documents may be obtained from the Engineer and Manager on payment of a deposit of £2, which will be refunded on receipt of a bona-fide Tender and return of the documents.

Tenders must be received by 8th FEBRUARY, 1960.

C. J. WALKER,
Clerk and Accountant.

Weaverham Grange,
Hartford,
Northwich, Cheshire.

CONTRACTS

ISLE OF ELY COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

COUNTY ROADS.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS and SERVICES during the 12 months ending 31st March, 1961:—

Tender Form

- (1) Supply and Application of Binder for Surface Dressing.
- (2) Supply and Delivery of Chippings, etc., for Surface Dressing.
- (3) Supply, Deliver and Lay Tarmacadam.
- (4) Supply, Deliver and Lay Bitumen Macadam.
- (5) Supply, Deliver and Lay Dense Bitumen Macadam with Crushed Rock Aggregate.
- (6) Supply, Deliver and Lay Fine Cold Asphalt.
- (7) Supply and Delivery of Rubble, Spallings, Quarry Dust, Crushed Concrete, Rejections, pre-mixed Waterbound Macadam (including Layings), Single Sized Roadstone and Building Sand.
- (8) Supply and Delivery of Concrete Aggregates, Binding Silt, Gravel Hoggin, Gravel as Raised, Soil Filling and Winter Grit.
- (9) Supply and Delivery of Cationic Bitumen Macadam.
- (10) Supply and Delivery of Bituminous Road Emulsion.
- (11) Supply and Delivery of Concrete Kerbs and Paving Slabs.
- (12) Providing and Fixing Reflecting Roadstuds.
- (13) Laying Plastic White Lines.
- (14) Hire of Mechanical Plant.
- (15) Hire of Rollers.
- (16) Gully Cleansing and Mechanical Road Sweeping.
- (17) Hire of Lorries and Tractors.
- (18) Supply and Delivery of Road Paint, Tools, Oil, etc.
- (19) Supply and Delivery of Concrete Fencing—Posts and Chain Link.
- (20) Supply and Delivery of Traffic Signs.
- (21) Heating and Planing.
- (22) Supply and Delivery of Ready-Mixed Concrete and Lean-Mix Concrete.
- (23) Supply and Delivery of Laying of Hot-Rolled Gravel Asphalt and Sand Carpets.
- (24) Supply and Delivery of Salt Glazed Ware Pipes, Drain Fittings, Concrete Cylindrical Pipes and Fittings and Concrete Porous Pipes.
- (25) Supply, Deliver and Lay Dense Tar Surfacing.

Forms of Tender may be obtained from the County Surveyor, County Hall, March, Cambs.

Sealed Tenders, in envelope provided, to be received by the Clerk of the County Council by Noon on TUESDAY, 19th January, 1960.

R. F. G. THURLOW,
Clerk of the County Council.

County Hall,
March,
December, 1959.

BEDFORDSHIRE COUNTY COUNCIL.

FIRE SERVICE UNIFORMS.

TENDERS are invited for the SUPPLY of FIRE TUNICS and TROUSERS, UNDRSS JACKETS and TROUSERS, SHOES, CAPS, OVERALLS, SHIRTS, SOCKS, TIES.

Forms of Tender may be obtained from the CHIEF FIRE OFFICER, Fire Services Headquarters, Britannia Road, Bedford, and should be returned to him not later than SATURDAY, 27th February, 1960.

COUNTY BOROUGH OF HUDDERSFIELD.

The CORPORATION OF HUDDERSFIELD invite TENDERS for the SUPPLY of the FOLLOWING MATERIALS for the 12 months ending 31st March, 1961:

Tender Form

- (1) Granite Chippings and Broken Granite.
- (2) Stone Flags and Kerb.
- (3) Pitching and Ballast.
- (4) Broken Limestone and Chippings.
- (5) Tarmacadam.
- (6) Lubricants for Highways Department Vehicles and Plant.
- (7) Washed Crushed Gravel Washed Quartzite, Washed Sand and Building Sand.
- (8) Steel Fabric for Concrete Reinforcement.
- (9) Cement.
- (10) Engineering Bricks and Common Bricks.
- (11) Glazed Ware Pipes, Gullies and Fittings.
- (12) Cast-Iron Materials.
- (13) Scavenger Brushes and Brooms.
- (14) Precast Concrete Flags and Precast Concrete Kerb.
- (15) Unreinforced and Reinforced Concrete Pipes, Tubes and Bends.
- (16) Tar for Surface Dressing.
- (17) Electric Lamps (Tungsten Filament).
- (18) Electric Lamps (Mercury Vapour and Sodium).
- (19) Electric Cables.
- (20) Gas Mantles.
- (21) Fine Cold Asphalt and Skim Coat Material.
- (22) Dense Tar Surfacing.
- (23) Hot Rolled Asphalt.
- (24) Ready-mixed Concrete.
- (25) Pre-mixed Waterbound Macadam.
- (26) Bitumen Macadam.

The successful tenderer will be required to execute a Contract, the draft of which may be inspected at the Town Clerk's Office, Town Hall, between 10 and 4 o'clock.

Sealed Tenders, appropriately endorsed, signed in the handwriting of the tenderer or his agent, and addressed "Town Clerk, Town Hall, Huddersfield," must reach him not later than 10 a.m. on MONDAY, 25th January, 1960.

The Corporation does not bind themselves to accept the lowest or any Tender.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield,
January, 1960.

WALTHAM HOLY CROSS URBAN DISTRICT COUNCIL.

CLASS "A" SODIUM LIGHTING TO PART OF A.112 AND CLASS "B" SODIUM LIGHTING TO PART OF MOTT STREET.

TENDERS are invited for the SUPPLY, ERECTION and WIRING of 111 CONCRETE COLUMNS to take Class "A" Sodium Lighting, and 10 CONCRETE COLUMNS to take Class "B" Sodium Lighting.

Contractors wishing to tender should send their names to the undersigned not later than Noon, 15th January, 1960.

The Council does not bind itself to accept the lowest or any Tender.

H. L. MASON,
Acting Clerk of the Council.

Town Hall,
Waltham Abbey,
Essex.

28th December, 1959.

CONTRACTS

COUNTY BOROUGH OF BOURNEMOUTH.

BOROUGH ENGINEER'S DEPARTMENT.

PROPOSED WINDBREAK—BOURNEMOUTH PIER NECK.

QUOTATIONS are invited for the ABOVE STRUCTURE, to be constructed mainly in Aluminium. Details obtainable from Borough Engineer, Town Hall, Bournemouth.

Quotations to reach me by 8th FEBRUARY, 1960.
A. LINDSAY CLEGG,
Town Clerk.

BOROUGH OF BARKING.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

SUPPLIES FOR THE PERIOD 1st APRIL, 1960—31st MARCH, 1961, EXCEPT WHERE OTHERWISE STATED.

TENDERS are invited for the FOLLOWING:—

- Asphes.
- Ballast, Sand and Shingle.
- Line and Cements.
- Ready Mixed Concrete and Paving Mortar.
- Salt Glazed Ware.
- Paving Slabs, Kerb and Edging (Artificial Stone).
- Cold Asphalt Carpeting Material.
- Cold Bitumen Emulsion.
- Cutback Bitumen (Spraying Grade).
- Granite Chippings.
- Hot Rolled Asphalt (Patching).
- Tar/Bitumen Compound, Sprayed.
- Tarred and Bituminous Macadams.
- Dustbins.
- Vehicle Batteries.
- Cleaning Materials, including Toilet Paper and Brooms and Brushes.
- Petrol, Paraffin, Gas, Diesel, Vaporising Oils.
- Fuel Oil (35 secs and 200 secs).
- Uniforms and Protective Clothing.
- Blacksmiths' Work (Tool Sharpening).
- Motor Haulage.
- Typewriter Servicing.
- Thermoplastic White Lines.
- Tyres and Tubes.
- Ideal Britannia Boilers.

Window Cleaning (for a period of three years). Particulars and Form of Tender may be obtained on application to the Borough Engineer and Surveyor, Town Hall, Barking, Essex. The closing date for receipt of Tenders is 9 a.m. on FRIDAY, 29th January, 1960.

E. R. FARR,
Town Clerk.

Town Hall,
Barking, Essex.

BOROUGH OF CREWE.

BOROUGH ENGINEER'S DEPARTMENT.

PROPOSED SEWERAGE SCHEME—NANTWICH ROAD TO THE SOUTHERN OUTFALL SEWER.

TENDERS are invited for the CONSTRUCTION of the ABOVE SEWERAGE SCHEME, consisting of approx. 1,375yd. of 36in. dia., 900yd. of 33in. dia., 150yd. of 24in. dia., 500yd. of 18in. dia., 250yd. of 15in. dia., and 120yd. of 12in. dia. Sewers, together with Manholes and ancillary Works.

Copies of the Specification, Bills of Quantities, General Conditions of Contract and Form of Tender can be obtained after the 15th January, 1960, from F. MERRILL, Esq., A.M.I.C.E., Borough Engineer and Surveyor, Town Hall, Crewe, Cheshire, on payment of £2 2s., which will be returned on receipt of a bona-fide Tender.

Fans may be inspected forthwith at the office of the Borough Engineer.

Sealed Tenders must be returned to the undersigned not later than 12 Noon on TUESDAY, the 9th February, 1960, in the envelope provided.

The Council does not bind itself to accept the lowest or any Tender. Any acceptance will be subject to the approval of the Ministry of Housing and Local Government.

A. BROOK,
Town Clerk.

Crewe,
31st December, 1959.

HINDLEY URBAN DISTRICT COUNCIL.

SEWERAGE—CONTRACT NO. 1.

TENDERS are invited, on a Fixed-price Basis, from experienced contractors for the CONSTRUCTION of approx. 4¼ miles of MAIN SEWERS varying in size from 15in. to 39in. in dia., together with Stormwater Overflows, Manholes, and other appurtenant works.

Drawings may be inspected, and the Contract documents obtained at the Offices of the Council's Consulting Engineers, MESSRS. CHARLES J. LOMAX AND SON, 68 Barton Chambers, Barton Arcade, Deansgate, Manchester, 3, on payment of a deposit of Five Guineas (cheques only, made payable to Hindley Urban District Council), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders, endorsed "Tender for Sewerage Contract No. 1," must be returned to the undersigned not later than Noon on TUESDAY, 9th February, 1960. The lowest or any Tender will not necessarily be accepted.

F. HICKSON,
Clerk of the Council.

Town Hall,
Hindley, Lancs.

PRESTON RURAL DISTRICT COUNCIL.

LONGTON AND DISTRICT SEWERAGE.

CONTRACT NO. 4.

TENDERS are invited, on a Fixed-price Basis, from experienced contractors for the CONSTRUCTION of the UNDERMENTIONED WORKS:

- (1) Approx. Six Miles of Main Sewers varying in size from 9in. to 15in. in dia.
- (2) Manholes and appurtenant works.
- (3) Two Sub-pumping Stations, together with Spun-iron Pumping Mains.
- (4) Approx. Five Miles of 4in. and 6in. dia. House Drains, together with Inspection Chambers, etc.
- (5) The Restoration of all Surfaces.

Drawings may be inspected, and the Contract documents obtained at the Offices of the Engineers, MESSRS. CHARLES J. LOMAX AND SON, Chartered Civil Engineers, 68 Barton Chambers, Barton Arcade, Deansgate, Manchester, 3, on payment of a deposit of Five Guineas (cheques only, made payable to Preston Rural District Council), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders, endorsed "Tender for Sewerage Contract No. 4," must be returned to the undersigned not later than Noon on THURSDAY, 11th February, 1960.

The lowest or any Tender will not necessarily be accepted.

F. B. YOUNG,
Clerk of the Council.

Council Offices,
Guildhall Street,
Preston, Lancs.

CONTRACTS

COUNTY BOROUGH OF WIGAN.

ANNUAL TENDERS FOR MATERIALS, 1960-61.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS during the financial year ending 31st March, 1961:-

- (1) Granite and Gravel Chippings.
- (2) Aggregates for Concrete and Building Work.
- (3) Pitching Stone.
- (4) Tar and Bituminous Compounds for Surface Dressing.
- (5) Coated Macadam.
- (6) Cold Asphalt.
- (7) Precoated Chippings.
- (8) Concrete Flags and Kerbs.
- (9) Gritstone Kerbs.
- (10) Ashes.
- (11) Glazed Earthenware Pipes, Gullies, etc.
- (12) Concrete Pipes, Manholes and Gully Pots.
- (13) Gully Grates and Frames.
- (14) Manhole Covers and Frames.
- (15) Cement.
- (16) Fabric Reinforcement.

Forms of Tender, etc., may be obtained upon application to the Borough Engineer, Municipal Buildings, Library Street, Wigan.

Tenders, in the envelopes provided, must be received by the undersigned not later than 10 a.m. on MONDAY, 1st February, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender, and attention is drawn to the Council's Standing Orders, a copy of which can be seen at the Borough Engineer's Office.

ALLAN ROYLE,
Town Clerk.

Municipal Buildings,
Library Street,
Wigan.

CITY BOROUGH OF DONCASTER.

ANNUAL TENDERS FOR SUPPLIES.

TENDERS are invited for the SUPPLY of the FOLLOWING ITEMS for the year ending 31st March, 1961:-

- (1) Dry Stone for Surface Dressing and Gritting.
- (2) Dry Stone for Road Foundations.
- (3) Aggregates for Concrete and Building Work.
- (4) Coated Macadam.
- (5) Cold Asphalt.
- (6) Tar and Bituminous Emulsions.
- (7) Concrete Kerbs and Flags.
- (8) Ashes.
- (9) Glazed Earthenware Pipes and Gullies.
- (10) Concrete Tubes and Gullies.
- (11) Manhole Covers, Frames and Gully Grates.
- (12) Petrol, Oils, Greases and Fuel Oils.
- (13) Electric Lamps.
- (14) Brooms, Brushes and Refilling Sweeper Brushes.
- (15) Soaps and Scouring Powders.
- (16) Disinfectant.
- (17) Toilet Rolls.
- (18) Rubber and Thermoplastic Insulated Cables and Cords.

Applications for Forms of Tender and Conditions of Contract to be made to the Borough Surveyor, 2 Priory Place, Doncaster, to whom completed Tenders must be returned by FRIDAY, 29th January, 1960, in the official envelope provided.

The Council does not bind itself to accept the lowest or any Tender.

H. R. WORMALD,
Town Clerk.

CITY OF CARLISLE.

WIGTON ROAD IMPROVEMENT (A.595).

TENDERS are invited for the ABOVE.

The Work comprises the Reconstruction of the Existing Highway, with a Pitched Base and Hot-rolled Asphalt Surface, the Provision of New Service Roads in Wet-mix Macadam Base, with Cold Rolled Asphalt Surfacing, together with Surface Water Drainage and Accommodation Works.

Particulars from City Surveyor, 18 Fisher Street, Closing date 4th FEBRUARY, 1960.

H. D. A. ROBERTSON,
Town Clerk.

RUISLIP-NORTHWOOD URBAN DISTRICT COUNCIL.

TENDERS are invited for HIGHWAY WORKS to an S BEND in NORTH VIEW, EASTCOTE. The Works comprise the Reconstruction and Super-elevation of 1,320 sq. yd. Carriageway (Rolled Concrete Base, Hot-rolled Asphalt, Surface), Re-lay of 275 lin. yd. Kerb, and 500 sq. yd. Flag Paving.

Tender documents obtainable from the Engineer and Surveyor on payment of £2 2s. deposit, which is returnable on receipt of a bona-fide Tender, to be returned to the undersigned by 10 a.m., WEDNESDAY, 3rd February, 1960.

EDWARD S. SAYWELL,
Clerk of the Council.

Council Offices,
Northwood,
Middx.

SHERBORNE URBAN DISTRICT COUNCIL.

DEMOLITION OF COTTAGES-BIDEWELL.

TENDERS are invited for the DEMOLITION to GROUND LEVEL of 1-5 BIDEWELL SOUTH STREET. All material to be taken over by the contractor and removed from the site.

Specification, Conditions of Contract and Form of Tender may be obtained from the office of the Engineer and Surveyor, The Manor House, Newland, Sherborne.

Tenders, on the prescribed form, must be delivered to the undersigned not later than Noon on SATURDAY, 6th February, 1960, in a plain sealed envelope endorsed "Tender for Demolition-Bidewell."

The Council do not bind themselves to accept the most favourable or any Tender.

E. J. FREEMAN,
Clerk of the Council.

The Manor House,
Newland,
Sherborne,
Dorset.
5th January, 1960.

ROYAL WESTERN COUNTIES HOSPITAL GROUP, STARCROSS.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED COMMODITIES for the period of three, six or 12 months from 1st April, 1960:-

- Meat, Fish, Bread, Flour and Confectionery, Groceries and Provisions, Milk and Eggs, Staff Uniforms, Patients' Clothing, Drapery, Bedding and Linen, Leather.

The closing date for completed Tenders is 29th JANUARY, 1960, and Forms of Tender may be obtained from the undersigned.

L. W. HEDGER,
Secretary/Finance Officer,
Royal Western Counties Hospital
Management Committee.

Executive Offices,
Starcross,
Near Exeter.

CONTRACTS

BOROUGH OF DAGENHAM.

ROMFORD ROAD (B.174)-WIDENING OF CARRIAGEWAY AND FOOTPATHS, TOGETHER WITH SURFACE WATER DRAINAGE DESIGN, FOWLER ROAD AND NORTH BOUNDARY OF GOLF COURSE HOUSE.

TENDERS are invited for the ABOVE WORKS, consisting of Laying approx. 5,200 sq. yd. of Reinforced Concrete Carriageway and 5,000 sq. yd. Bituminous Macadam Carriageway Kerbs, Macadam Footways, and ancillary works.

Plans and General Conditions of Contract may be inspected in the Borough Engineer and Surveyor's Office during normal working hours, and Specification and Bills of Quantities obtained, on deposit of £2 2s., returnable on receipt of a bona-fide Tender.

Tenders to be returned in the envelope provided, bearing no external indication of the name of the sender, to the undersigned not later than Noon on SATURDAY, 6th February, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

BOROUGH OF GLASTONBURY.

WELLS ROAD SEWAGE PUMPING STATION.

SUPPLY AND ERECTION OF PUMPING PLANT.

TENDERS, on a Fixed-price Basis, are invited for the SUPPLY AND ERECTION OF SEWAGE PUMPING PLANT at a New Sewage Pumping Station to be erected at Wells Road (Dunthorn's Site), Glastonbury.

This Contract covers only the Supply and Erection of Pumps, Motors, Control Gear, Pipework and Valves. Particulars and Specification may be obtained from the Borough Engineer and Surveyor, Borough Engineer's Office, High Street, Glastonbury.

Sealed Tenders, endorsed "Tender for Sewage Pumping Plant," should be submitted in a plain envelope to reach the undersigned not later than Noon on MONDAY, 1st February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

G. H. HARLAND,
Town Clerk.

Town Clerk's Office,
High Street,
Glastonbury, Som.
1st January, 1960.

HORSHAM URBAN DISTRICT COUNCIL.

COMPTONS LANE IMPROVEMENT.

The Council will shortly be inviting TENDERS for CONSTRUCTING A FOOTPATH along approx. 200yd. of COMPTONS LANE, together with 185yd. of 9in. S.W. Sewer and 100yd. Carriageway Widening.

Contractors wishing to be included on the list of tenderers must notify the Surveyor to the Council not later than First Post on MONDAY, 18th January, 1960. The Council do not bind themselves to include all applicants on their selected list.

S. ASHTON STRAY,
Clerk of the Council.

Council Offices,
Horsham Park,
Horsham, Sussex.

BARNET URBAN DISTRICT COUNCIL.

WHITINGS HILL HOUSING ESTATE—SECTION V (PART).

The Council invites FIXED-PRICE TENDERS for the CONSTRUCTION OF SEWERS and the ADVANCE PREPARATION OF THE CARRIAGEWAYS and FOOTWAYS on Section V (Part) of the Whittings Hill Housing Estate.

Conditions of Contract and Drawings may be inspected, and Specification of Works, Bill of Quantities and Form of Tender obtained, on application to the Engineer and Surveyor of the Council, Ravenscroft House, Wood Street, Barnet, on any day (Saturdays excepted) between the hours of 9 a.m. and 5 p.m.

Sealed Tenders must be delivered to the undersigned not later than 12 Noon on SATURDAY, 23rd January, 1960, and marked in top left-hand corner of envelope "Whittings Hill Estate—Section V (Part V)".

The Council does not bind itself to accept the lowest or any Tender.

ALFRED S. MAYES,
Clerk of the Council.

Municipal Offices,
Wood Street,
Barnet, Herts.
31st December, 1959.

WELTON RURAL DISTRICT COUNCIL.

TENDERS FOR HOUSING AND ROADS AND SEWERS AT SAXILBY, LINCOLN.

The above Council invites contractors who are desirous of submitting TENDERS for 20 DWELLINGS, comprising Four Houses and 16 Bungalows, at Saxilby, together with Roads and Sewers for an eventual total of 28 Dwellings, to send in their names to the Architects, MESSRS. WM. SAUNDERS AND PARTNERS, 24 Castle Gate, Newark, Notts., or 57 Uppgate, Louth, Lincs., from whom copies of the Specifications and Bills of Quantities and Conditions may be obtained on payment of £3 3s., which will be returned on receipt of a bona-fide Tender.

The Council does not bind itself to accept the lowest or any Tender received, and acceptance is subject to the approval of the Ministry of Housing and Local Government.

Sealed and endorsed Tenders, on forms supplied, must reach the undersigned not later than 12 Noon on WEDNESDAY, 3rd February, 1960.

L. H. KING,
Clerk of the Council.

Council Offices,
31 Clasketgate,
Lincoln.
1st January, 1960.

HUNTINGDON RURAL DISTRICT COUNCIL.

TENDERS FOR VEHICLE DEPOT.

TENDERS, on a Fixed-price Basis, are invited for the ERECTION OF A DEPOT at ALCONBURY for the Council's vehicles. The structure is of Brickwork with an Asbestos-Cement Roof.

Specifications, Drawings and Forms of Tender may be obtained from K. A. MILNER, ESQ., L.R.I.B.A., of Messrs. Lea, Milner and Wardley, 4 Market Hill, Huntingdon, on payment of a deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender.

Tenders should be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 27th January, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. MIDWOOD,
Clerk of the Council.

Montagu House,
Huntingdon.
5th January, 1960.

CONTRACTS

CAMBRIDGESHIRE COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

SURFACE WATER SEWERS AT BURWELL, LODGE AND CHIPPENHAM.

CONTRACT NO. 5919.

TENDERS are invited for the CONSTRUCTION of about 2,000 lin. yd. of SURFACE WATER SEWERS, 6in to 12in. in dia., in Glazed Stoneware Pipes, together with Manholes and ancillary Works, at LOW ROAD, THE CAUSEWAY, and NESS ROAD, BURWELL; MILL ROAD, LODGE; and NEW STREET, CHIPPENHAM.

The Specification, Bills of Quantities, Drawings and Form of Tender may be obtained from the County Surveyor, Shire Hall, Castle Hill Cambridge.

Tenders, in the envelopes provided, are to be delivered to the undersigned not later than 9.30 a.m. on FRIDAY, 29th January, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

CHARLES PHYTHIAN,
Clerk of the Council.

Shire Hall,
Castle Hill,
Cambridge.
January, 1960.

BOROUGH OF MITCHAM.

REMOVAL AND DISPOSAL OF GAS STREET LIGHTING EQUIPMENT.

STAGES XIVB AND XIVC.

TENDERS are invited for the REMOVAL AND DISPOSAL of 348 CAST-IRON LAMP STANDARDS, 9in. dia., 9in. high and 2cwt. in weight, together with Lanterns and Piping, all situated on roads within the Borough.

Form of Tender, Schedule and Specification may be obtained from the Borough Engineer and Surveyor, Town Hall, Mitcham, at whose Office the General Conditions of Contract may be inspected.

Tenders must be delivered to the undersigned, in the envelope provided, not later than 12 Noon on SATURDAY, 30th January, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. H. WHITE,
Town Clerk.

Town Hall,
Mitcham.
31st December, 1959.

BOROUGH OF BEBINGTON.

SUPPLY OF MATERIALS.

TENDERS are invited for the UNDERMENTIONED ITEMS for the year ending 31st March, 1961:-

- Ashes.
Bituminous and/or Taroed Macadam.
Broken Stone and Chippings.
Cement.
Cleaning of Windows.
Cold Asphalt.
Concrete Flags.
Concrete Kerbs.
Petrol and Oils, etc.
Sand, Gravel and Winter Grit.
Tar and Cold Emulsion.

Specifications and Forms of Tender and any other particulars may be written application to the Borough Engineer and Surveyor, Town Hall, Bebington, Wirral.

Tenders, endorsed "Tender for —" in plain sealed envelopes, which must not bear any name or mark indicating the sender, to be received by me not later than FRIDAY, the 22nd January, 1960.

Contractors who are accepted may be required to enter into Contracts containing, inter alia, clauses as to the standard rate of wages, and Bonds for the due performance of the Contracts.

The Council do not bind themselves to accept the lowest or any Tender and reserve to themselves the right to accept any Tender in whole or part.

G. CHAPPELL,
Town Clerk.

Town Hall,
Bebington.
1st January, 1960.

BOROUGH OF BRIDLINGTON.

SUPPLY OF PUMPING PLANT.

TENDERS are invited for the SUPPLY and INSTALLATION OF TWO SETS OF DUPLICATE PUMPING PLANT of 25,000 and 35,000 g.p.h. Electrically Operated and Automaticaly Controlled.

Contract documents, including Form of Tender, obtainable from the Water Engineer and Manager, 11 Marton Road, Bridlington, upon payment of a deposit of Two Guineas, refundable on receipt of bona-fide Tender. Tenders to reach undersigned by 5th FEBRUARY, 1960.

S. BRIGGS,
Town Clerk.

Town Hall,
Bridlington.
1st January, 1960.

CITY AND COUNTY OF BRISTOL.

HOLMES HILL ROAD, ST. GEORGE—ROAD WIDENING.

TENDERS invited for ROADWORKS on ABOVE SITE Work includes approx. 1,150 sq. yd. of Bituminous Macadam Carriageway, including Hardcore Foundations, Kerbs, Channelling, Gullies and Connections, and approx. 540 sq. yd. of Asphalt Footways.

Copies of Conditions of Contract, Specification and Bill of Quantities from City Engineer and Planning Officer, Cabot House, Deanery Road, Bristol, 1. Plans may be seen at City Engineer's offices.

Tenders, in envelope provided endorsed "Holmes Hill Road, St. George," but bearing no mark to indicate sender, to CITY ENGINEER, by 10 a.m., 12th FEBRUARY.

ALFRETON URBAN DISTRICT COUNCIL.

TENDERS, LEABROOKS LIGHTING.

TENDERS are invited for the INSTALLATION of 118 LIGHTING UNITS, including 113 140-watt Sodium, five 3/80 Fluorescent Lanterns and 118 Concrete Columns.

Forms of Tender, Specifications, and Bills of Quantity may be obtained from the Engineer and Surveyor upon a deposit of £2 2s. which will be refunded on receipt of a bona-fide Tender.

Tenders must be deposited not later than 12 Noon, THURSDAY, 28th January, 1960, addressed to me in a plain sealed envelope and endorsed "Tender for Leabrooks Lighting."

The Council do not bind themselves to accept the lowest or any Tender.

H. TAYLOR,
Clerk of the Council.

Council Offices,
Nottingham Road,
Alfreton,
Derby.

CONTRACTS

DERBYSHIRE COUNTY COUNCIL.

BRIDGES AND HIGHWAYS DEPARTMENT.

CHESTERFIELD-WORKSOP ROAD, A.619—IMPROVEMENT AT RED HILL, WHITWELL.

TENDERS are invited for IMPROVEMENT WORKS on the ABOVE ROAD between Whitwell Road (B.6043) and the Half Moon Inn, comprising 7,000 cu. yd. Excavation, 4,000 sq. yd. Foundations, 5,000 sq. yd. Base Course, 1,200 lin. yd. Kerbing, 600 lin. yd. Drains and 1,400 lin. yd. Fencing, etc. Plans may be seen and Form of Tender, etc., obtained from County Surveyor, County Offices, Matlock, on payment of £5 deposit, cheques payable to Derbyshire County Council. Deposit will be refunded on signing Contract or notification of non-acceptance. Tender, in plain sealed envelope endorsed "Red Hill, Whitwell, B. and H." to be delivered to Clerk of the County Council, County Offices, Matlock, Derbyshire, by TUESDAY, 26th January, 1960. The Council does not bind itself to accept the lowest or any Tender.

S. MEHEW,
County Surveyor.

County Offices,
Matlock.

COUNTY BOROUGH OF BLACKBURN.

DEMOLITION OF W.C.S AND PROVISION OF NEW INDOOR TOILETS AT ACCRINGTON ROAD SECONDARY MODERN SCHOOL.

Contractors desiring to TENDER for the ABOVE WORK should submit their names to the Borough Engineer and Surveyor, Town Hall, Blackburn, by THURSDAY, 28th January, 1960.

FRANK SQUIRES,
Town Clerk.

COUNTY BOROUGH OF BURLEY.

TENDERS FOR FURNITURE AND EQUIPMENT.

TENDERS are invited for the SUPPLY of FURNITURE, HARDWARE, CARPETING, ELECTRICAL EQUIPMENT, CURTAINS and RAILS, LINEN, CROCKERY, CUTLERY and MEDICAL SUPPLIES to Hamedon House, Burnley, a hostel for the accommodation of 31 elderly residents and staff. Forms of Tender may be obtained from the Social Services Officer, 50 Manchester Road, Burnley, and should be returned to the undersigned, in the special envelope provided for the purpose, not later than 10 a.m. on TUESDAY, 26th January, 1960. The Council reserve the right to accept the whole or any part of any Tender submitted.

C. V. THORNLEY,
Town Clerk.

Town Hall,
Burnley.

January, 1960.

BOROUGH OF HARWICH (ESSEX).

WIDENING AND IMPROVEMENT OF LOW ROAD, DOVERCOURT.

TENDERS are invited for the ABOVE WORK, comprising the Laying of approx. 780yd. of 9in. to 27in. dia. Surface Water Sewer, 80yd. of 12in. dia. Foul Sewer, 900 d. of Kerbing, 1,800 super. yd. of Precast Concrete Slab Paving, 4,250 super. yd. of Carriageway Construction and Surfacing, the erection of Lamp Columns, and other ancillary works.

General Conditions of Contract and Drawings may be inspected at the offices of the Borough Engineer and Surveyor, Town Hall, Ipswich, from whom the Specification, Bill of Quantities and Form of Tender may be obtained on payment of a deposit of Two Guineas, which is refundable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Widening Low Road, Dovercourt," should be submitted to the Town Clerk, Town Hall, Harwich, Essex, not later than First Post on SATURDAY, 6th February, 1960.

The Council do not undertake to accept the lowest or any Tender.

T. B. A. MOONLIGHT,
Town Clerk.

Town Hall,
Harwich.

5th January, 1960.

BOROUGH OF HESTON AND ISLEWORTH.

SPRING GROVE ROAD.

SUPER-ELEVATION OF BEND, RESURFACING AND CONSTRUCTION OF LAY-BY.

TENDERS are invited for the ABOVE-MENTIONED WORK in SPRING GROVE ROAD, between its junction with Kingsley Road and Jersey Road.

Conditions of Contract and Drawings may be seen at, and Form of Tender, Specification and Bill of Quantities obtained from, the Borough Engineer's Department, 88 Lampton Road, Hounslow, on deposit of £2 2s. (refundable for bona-fide Tenders submitted and not subsequently withdrawn). Tenders, in endorsed envelopes supplied by the Council but not indicating the sender, is received by me by 10 a.m., 5th FEBRUARY, 1960.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow.

Midx.

BRIERLEY HILL URBAN DISTRICT COUNCIL.

SUPPLY OF PETROL AND DIESEL OIL.

The Council invite TENDERS for the SUPPLY during the year beginning on 1st April, 1960, of approx. 25,000 gallons of COMMERCIAL PETROL and DIESEL OIL, to be delivered as required to the Council's Depot. Tenders, enclosed in plain sealed envelopes marked "Tender for Petrol," but bearing no name or mark indicating the sender, to be received by the CLERK OF THE COUNCIL, Civic Buildings, Brierley Hill, Staffs., not later than 12 o'clock Noon on 30th JANUARY, 1960.

CATERHAM AND WARLINGHAM URBAN DISTRICT COUNCIL.

RESURFACING—LIMPSFIELD ROAD.

TENDERS are invited for the PROVISION and MACHINE-LAYING of approx. 11,000 sq. yd. GRAVEL AGGREGATE HOT ROLLED ASPHALT 1½in. thick, in accordance with B.S. 594, in Limpsfield Road, Warlingham, Surrey. Specification, Bills of Quantities and Forms of Tender may be obtained from the Engineer and Surveyor, Council Offices, Caterham, and should be delivered to the undersigned, in the envelope provided, not later than 4 p.m. on the 29th JANUARY, 1960.

B. J. SMERDON,
Clerk of the Council.

Council Offices,
Caterham.

CONTRACTS

NOTTINGHAMSHIRE COUNTY COUNCIL.

NOTTINGHAM-DERBY TRUNK ROAD, A.52—SANDIACRE/STAPLEFORD LY-PASS.

BRIDGEWORKS IN NOTTINGHAMSHIRE.

TENDERS are invited for the CONSTRUCTION of TWO PRESTRESSED CONCRETE BRIDGES, Spans 25ft. 9in. and 61ft. 7in., over BESSEL LANE and the RIVER EREWASH, respectively, and also a STEEL THREE-SPAN GIRDER BRIDGE over TONOT SIDINGS, Side Spans 92ft. 6in. and Varying Centre Span 63ft. 1in. to 74ft. 7in.

The Form of Tender and Contract documents are obtainable from the County Surveyor, Shire Hall, Nottingham, on payment of £10 deposit, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn and the return of the Contract documents. Tenders, in the envelopes provided, must be delivered to the undersigned not later than FRIDAY, the 11th March, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

A. R. DAVIS,
Clerk of the County Council.

County Hall,
West Bridgford,

Nottingham.

HOLLAND (Lincs.) COUNTY COUNCIL.

RECONSTRUCTION ON ROUTE A.17—NEAR CRAVEN'S MILL, SUTTONTON.

TENDERS are invited for the VARIOUS WORKS in the RECONSTRUCTION and REALIGNMENT of approx. 600 lin. yd. of TRUNK ROAD between the Villages of Suttonton and Vistoft.

Contract documents and Drawings can be obtained from the County Surveyor upon payment of £2 (refundable on submission of a bona-fide Tender).

Tenders, in sealed envelopes endorsed "Tenders for Trunk Road Works, Suttonton," must reach the undersigned not later than 12 Noon on MONDAY, 25th January, 1960.

H. A. H. WALTER,
Clerk of the County Council.

County Hall,
Boston, Lincs.

URBAN DISTRICT COUNCIL OF CORBY.

CAR PARK AND ACCESS ROAD TO KORONATION PARK BOWLING GREEN.

TENDERS are invited for the CONSTRUCTION of a SMALL TARMACADAM CAR PARK (approx. 450 sq. yd.) and CONCRETE ACCESS ROAD (approx. 150 sq. yd.), together with Fencing, Drainage and ancillary works.

Documents may be obtained from the undersigned, on payment of a deposit of £1 (cheques being made payable to the Urban District Council of Corby), which will be refunded on receipt of a bona-fide Tender. Tenders should be delivered to the undersigned, in the envelope provided, not later than 9 a.m. on WEDNESDAY, 10th February, 1960.

G. B. BLACKALL,
Clerk of the Council.

Council Offices,
Corby.

Northants.

4th January, 1960.

URBAN DISTRICT COUNCIL OF KNARESBOROUGH.

NORTH-EASTERN AREA DRAINAGE SCHEME.

SURFACE WATER AND RELIEF SEWERS.

TENDERS are invited for the CONSTRUCTION of SURFACE WATER AND RELIEF SEWERS, together with ancillary works, involving some 4,000yd. of Sewers up to 36in. dia.

Specification, Bill of Quantities and Forms of Tender may be obtained from the Engineer and Surveyor, Knaresborough House, Knaresborough (in whose office Drawings and General Conditions of Contract may be inspected), on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn. Cheques to be payable to Knaresborough Urban District Council.

Tenders must be delivered, in the envelope provided (which shall not bear any name or mark indicating the sender), in as to reach the undersigned not later than Noon on MONDAY, 1st February, 1960. The Council does not bind itself to accept the lowest or any Tender.

C. RILEY,
Clerk of the Council.

Knaresborough House,
Knaresborough.

24th December, 1959.

LEATHERHEAD URBAN DISTRICT COUNCIL.

TENDERS are invited for RESURFACING FOOTWAYS AND KERBERING in the LEATHERHEAD AREA.

Tender documents, obtainable, and Site Plans may be inspected, at Engineer and Surveyor's Department, Red House, Leatherhead.

Tenders, in envelopes provided, to be delivered to the undersigned by Noon, 21st JANUARY, 1960.

J. EDE,
Clerk of the Council.

Council Offices,
Leatherhead.

MID-SUSSEX JOINT WATER BOARD.

TRUNK MAINS TO CUCKFIELD RESERVOIR.

TENDERS are invited from experienced contractors for the LAYING OF TRUNK MAINS 9in./12in. in dia., between CUCKFIELD and HAYWARDS HEATH.

The Mains will be laid mainly through private land and will connect with the Reservoir to be constructed at Cuckfield.

Conditions of the Specification, Bill of Quantities and Form of Tender, prepared by the Board's Consulting Engineers, EDWARD SANDAMEN, KENNARD AND PARTNERS, 171 Victoria Street, Westminster, London, S.W.1, may be obtained from the undersigned. A deposit of Five Guineas is required and this amount will be refunded upon receipt of a bona-fide Tender and the return of all documents.

The Drawings and Contract documents may be inspected at the Offices of the Consulting Engineers, or at the Offices of the Mid-Sussex Joint Water Board during the usual office hours.

Tenders, enclosed in plain sealed envelopes and endorsed "Tender for Trunk Mains to Cuckfield Reservoir," are to be delivered to the undersigned by 12 Noon on FRIDAY, the 29th January, 1960.

The Board do not bind themselves to accept the lowest or any Tender, and acceptance will be subject to the approval of the Ministry of Housing and Local Government.

W. H. ASHMOLE,
Clerk of the Board.

Mid-Sussex Joint Water Board,
Boltro Road,

Haywards Heath, Sussex.

4th January, 1960.

CONTRACTS

NORTHUMBERLAND COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATION ONLY OF ROAD-TAR BY MECHANICAL PRESSURE TANK.

TENDERS are invited for the ABOVE WORK to be carried out between the 1st May, 1960, and the 31st August, 1960.

Form of Tender, Specification, and Bill of Quantities may be had on application to the County Surveyor, Phoenix House, Queen Street, Newcastle upon Tyne, 1. The closing date for the receipt of Tenders will be 9 a.m. on the 27th JANUARY, 1960.

E. P. HARVEY,
Clerk of the County Council.

SOMERSET COUNTY COUNCIL.

SUPPLY OF SCOTCHLITE TRAFFIC SIGNS.

TENDERS are invited for the SUPPLY of SCOTCHLITE TRAFFIC WARNING SIGNS (other than portable signs) in accordance with the Traffic Signs Regulations and General Directions, 1957, and British Standard Specification 873:1959. Tenders to be submitted not later than 1st FEBRUARY, 1960.

Full particulars and Forms of Tender, together with envelopes, can be obtained from the undersigned. The County Council do not bind themselves to accept the lowest or any Tender.

J. H. H. WILKES,
County Surveyor.

County Hall,
Taunton.

COUNTY BOROUGH OF OLDHAM.

HOUSING COMMITTEE.

ALT ESTATE.

29 AGED PERSONS' FLATS AND WARDEN'S HOUSE.

The Housing Committee are prepared to receive FIXED-PRICE TENDERS for the ERECTION of the ABOVE 30 PERMANENT TRADITIONAL DWELLINGS on the Alt Estate, from firms experienced in the execution of such contracts.

Drawings may be inspected, and Bills of Quantities, Forms of Tender and General Conditions may be obtained from MESSRS. CAMERON AND MILDRETON, F.A.R.I.C.S., Chartered Quantity Surveyors, 21 Queen Street, Oldham, on payment of a deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn. Cheques, etc., to be crossed and made payable to the Borough Treasurer, Oldham Corporation. The Bills of Quantities will be available on and after MONDAY, 11th January.

Tenders will only be considered if they are submitted in the envelope provided, sealed and delivered not later than 10 a.m., MONDAY, 1st February 1960.

The Corporation do not bind themselves to accept the lowest or any Tender. The Contract will be subject to the Standing Orders of the Council, which include a requirement in this case for provision of sureties.

EDWARD HAINES,
Town Clerk.

WITNEY RURAL DISTRICT COUNCIL.

COMPREHENSIVE WATER SUPPLY SCHEME.

BOREHOLE AT BROADWELL GROVE.

CONTRACT NO. 15.

TO WELL BORING CONTRACTORS.

The Witney Rural District Council invite TENDERS from experienced well boring contractors for the SINKING of a 10in. dia. BOREHOLE approx. 250ft. at Broadwell Grove.

Specification and Plans may be inspected at the Council Offices, and Particulars and Specification may be obtained, and Plans inspected, at the Offices of the Council's Consulting Engineers, MESSRS. HOWARD HUMPHREYS AND SONS, Victoria Station House, Victoria Street, London, S.W.1, or from Monday, 11th January, 1960, until Friday, 5th February, 1960, between the hours of 10 a.m. and 4 p.m., upon payment of a deposit of Three Guineas by cheque made payable to the Witney Rural District Council, which deposit, after the Council have reached a decision, will be returned to each contractor who has submitted a bona-fide Tender which has not subsequently been withdrawn.

Tenders are to be on the official form and are to be delivered to the undersigned, in sealed envelopes endorsed "Tender for Borehole at Broadwell Grove (W22 Contract 15)" but bearing no name or other mark indicating the sender, not later than Noon on WEDNESDAY, the 10th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ERNEST ROWLES,
Clerk of the Council.

Clerk's Office,
Hillside,

Witney, Oxon.

January, 1960.

WITNEY RURAL DISTRICT COUNCIL.

COMPREHENSIVE WATER SUPPLY SCHEME.

CONTRACT NO. 14.

TO CIVIL ENGINEERING AND PUBLIC WORKS CONTRACTORS.

The Witney Rural District Council invite TENDERS from experienced contractors for the SUPPLYING and LAYING of approx. Five Miles of 4in., 6in. and 7in. dia. ASBESTOS-CEMENT PIPES, together with the necessary C.I. Fittings, Valves, etc.

Specification and Plans may be inspected at the Council Offices, and Particulars and Specification may be obtained, and Plans inspected, at the Offices of the Council's Consulting Engineers, MESSRS. HOWARD HUMPHREYS AND SONS, Victoria Station House, Victoria Street, London, S.W.1, on and from Monday, 11th January, 1960, until Friday, 5th February, 1960, between the hours of 10 a.m. and 4 p.m., upon payment of a deposit of Three Guineas by cheque made payable to the Witney Rural District Council, which deposit, after the Council have reached a decision, will be returned to each contractor who has submitted a bona-fide Tender which has not subsequently been withdrawn.

Tenders are to be on the official form and are to be delivered to the undersigned, in sealed envelopes endorsed "Tender for Comprehensive Water Supply Scheme (W22 Contract 14)," but bearing no name or other mark indicating the sender, not later than Noon on WEDNESDAY, the 10th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ERNEST ROWLES,
Clerk of the Council.

Clerk's Office,
Hillside,

Witney, Oxon.

January, 1960.

CONTRACTS

OXFORDSHIRE COUNTY COUNCIL.

SURFACE DRESSING, 1960-61.

TENDERS are invited for SURFACE DRESSING of COUNTY ROADS for 1960-61. Particulars and Form of Tender may be obtained from the County Surveyor, 8 New Road, Oxford, to whom they should be returned, in plain envelopes endorsed "Tender for Surface Dressing," by 17th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender received from time to time, and reserve to themselves the right of dividing Contracts between one or more persons tendering.

GERALD GALE BURKITT,
Clerk of the Council.

County Hall,
Oxford,
January, 1960.

COUNTY BOROUGH OF CROYDON.

CONVERSION INTO FLATS.

Contractors wishing to TENDER for CONVERTING PROPERTY in BIRDHURST RISE into NINE FLATS should apply to the Borough Engineer, Town Hall, Croydon, for Specifications and Drawings. Closing date for Tenders, 3rd FEBRUARY, 1960.

E. TABERNER,
Town Clerk.

COUNTY BOROUGH OF CROYDON.

WINDOW CLEANING.

TENDERS are invited for CLEANING WINDOWS to the COMMUNAL PARTS OF BLOCKS OF FLATS (Hallways, Landings, Entrance Doors, etc.), for 12 months commencing 1st April, 1960. Particulars from the Housing Manager, 71 Park Lane. Tenders to me by the 8th FEBRUARY, 1960.

E. TABERNER,
Town Clerk.

COUNTY BOROUGH OF BIRKENHEAD.

MUNICIPAL TRANSPORT DEPARTMENT.

MOTOR 'BUS AND FERRIES SECTIONS.

TENDERS are invited for the SUPPLY of ANNUAL STORES, including Engine Oil, Paints, Cleaning Materials, Electrical Equipment, Mechanical Component Parts, Scirrig, Ties, etc., from the County Engineer and Chandler. Details and Form of Tender from the GENERAL MANAGER, Transport Department, Laird Street, Birkenhead. Closing date for Tenders, 15th FEBRUARY, 1960.

BOROUGH OF ILFORD.

SITE DEVELOPMENT WORKS.

LAND BETWEEN FULLWELL AVENUE AND THE GLADE—STAGE I.

The Corporation invite TENDERS for the ABOVE WORKS, comprising the Construction of approx. 10,500 sq. yd. of Reinforced Concrete Carriageway and 2,470 lin. yd. of Glazed Stoneware and Concrete Pipe Soil and Surface Water Sewers, varying in dia. from 9in. to 36in., together with Manholes, Gullies, Drain Connections and all incidental Works.

Conditions of Contract and Drawings may be inspected upon application to the Borough Engineer and Surveyor, Town Hall, Ilford, from whom the Special Conditions, Specification, Bills of Quantities and Form of Tender may be obtained on payment of a deposit of Two Guineas, which is returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders, in an envelope (which will be provided), bearing no indication of tenderer and endorsed "Tender for Stage I Site Development Works—Land between Fullwell Avenue and The Glade," must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on the 26th JANUARY, 1960.

DROXFORD RURAL DISTRICT COUNCIL.

BISHOPS WALTHAM SEWERAGE AND SEWAGE DISPOSAL.

CONTRACT NO. 1.

TENDERS are invited from experienced contractors for the CONSTRUCTION of about 11 Miles of 15in., 12in., 9in. and 8in. dia. CONCRETE and STONEWARE SEWERS, MANHOLES and LATERALS, together with SEWAGE DISPOSAL WORKS, PUMPING STATION and 8in. dia. SPUN-IRON PUMPING MAIN, together with all works incidental thereto.

Contract documents may be obtained from the Council's Consulting Engineers, MESSRS. LEMON AND BLIZARD, Telford House, House Road, Southampton, on or about 18th January. Applications must be accompanied by a cheque deposit of £5, made payable to the Droxford Rural District Council, which will be returned after the receipt of a bona-fide Tender and the return of all documents lent. Plans of the work may be inspected at the Office of the Engineers.

Tenders, in plain sealed envelopes endorsed "Bishops Waltham Sewerage," must be delivered to the undersigned not later than Noon on MONDAY, 22nd February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. C. E. BUTCHER,
Clerk of the Council.

Council Offices,
Northbrook House,
Bishop's Waltham,
Hants.

WYCOMBE RURAL DISTRICT COUNCIL.

CAR PARK—THE PARADE, BOURNE END.

TENDERS are invited for the CONSTRUCTION of a CAR PARK off the Parade, Bourne End, including Excavation, approx. 6,000 sq. yd. of lean-mix Concrete and Asphalt Surfacing, Kerbing, Walling and Surface Water Drainage Works.

Tender documents and Drawings may be obtained from the Engineer and Surveyor, 17 High Street, High Wycombe.

Sealed Tenders, in envelopes provided, to be delivered to the undersigned not later than First Post on MONDAY, 22nd February, 1960.

The Council does not bind itself to accept the lowest or any Tender received.

L. C. RYSDALE,
Clerk of the Council.

17 High Street,
High Wycombe,
Bucks.

AMESBURY PARISH COUNCIL.

TENDERS are invited for the SUPPLY and ERECTION of 63 140-WATT SODIUM LAMPS on TRUNK ROAD A.303, in Amesbury. Specifications, etc., may be obtained from the Clerk of the Council, 52 Courtenay Road, Amesbury, by whom Tenders must be received by 27th JANUARY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

CONTRACTS

MONMOUTHSHIRE COUNTY COUNCIL.

LLANTARNAM-PONTYMOILE ROAD, ROUTE B.4244.

IMPROVEMENT BETWEEN LLANTARNAM AND CWMBRAN CEMETERY ENTRANCE.

TENDERS are invited for the IMPROVEMENT of LLANTARNAM ROAD between its junction with the NEWPORT - SHREWSBURY TRUNK ROAD at LLANTARNAM and the ENTRANCE to CWMBRAN CEMETERY, a length of approx. 0.84 of a mile. The Work comprises Light Earthworks, Retaining Walls, New Forecourt Walls, New Garages, the Construction of the Carriageway in Lean Concrete Surfaced with Bituminous Macadam, Drainage, Fencing, etc.

It is anticipated that the work will commence in March, 1960, and the time for the completion of the Contract is 12 months.

Forms and Conditions of Tender and Contract, Specification and Bill of Quantities may be obtained, and Plans inspected, at the office of the County Engineer and Surveyor, "Sticivo," Bassaleg Road, Newport, Mon., on payment of a deposit of £10, which should be transmitted by cheque only, made payable to "Monmouthshire County Council," and which will be returned on receipt of a bona-fide Tender.

Tenders are requested to check carefully the accuracy of their Tenders, and are reminded that no addition or deduction can be made in the Tender after submission. Neglect to comply with this direction may mean the rejection of the Tender.

Tenders, endorsed "Tender for Llantarnam Road Improvement," must be delivered to me in a plain sealed envelope bearing no indication of the sender, not later than 12 Noon on the 10th day of FEBRUARY, 1960.

The lowest or any Tender will not necessarily be accepted.

VERNON LAWRENCE,
Clerk of the Council.

County Hall,
Newport, Mon.
14th January, 1960.

CAMBRIDGESHIRE COUNTY COUNCIL.

GRANITE ASPHALT.

CONTRACT NO. 5920.

TENDERS are invited for SUPPLYING and LAYING by APPROVED MACHINE approx. 1,710 tons of GRANITE ASPHALT WEARING COURSE between CAMBRIDGE and BARTON, on Route A.603.

Documents in respect of the Work may be obtained from the County Surveyor, MR. ROBERT LACEY, M.I.C.E., at this address. Tenders, in the plain sealed envelope, must reach the undersigned not later than 9 a.m. on SATURDAY, 30th January, 1960.

CHARLES PHYTHIAN,
Clerk of the County Council.

Shire Hall,
Castle Hill,
Cambridge.

CITY OF MANCHESTER.

TENDERS invited for the SUPPLY and ERECTION of CHAIN LINK FENCING to the PROPOSED SCHOOL FOR THE DEAF, FALLOWFIELD. Specification and Drawings from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 27th JANUARY.

CITY OF MANCHESTER.

TENDERS invited for ADDITIONAL SANITARY ACCOMMODATION at ROSS' PLACE INFANTS' SCHOOL, ARDWICK. Bill of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 3rd FEBRUARY.

CITY OF MANCHESTER.

TENDERS invited for the SUPPLY, DELIVERY, LAYING and ROLLING of BITUMINOUS KARAPET WEARING COURSE at VARIOUS PARKS in Manchester. Details and Form of Tender from Director of Parks, Town Hall, Manchester, must be returned to the undersigned by TUESDAY, 2nd February, 1960, endorsed "Tender for Surfacing at Various Parks in Manchester."

PHILIP B. DINGLE,
Town Clerk.

CITY OF MANCHESTER.

MANCHESTER AIRPORT.

RUNWAY EXTENSION—STAGE TWO.

APPLICATIONS are invited for inclusion in a selected list of civil engineering contractors for the CONSTRUCTION of TAXIWAYS and a RUN-UP AREA, totalling about 50,000 sq. yd., mainly in Machine-laid Concrete, together with Drainage and various ancillary Works, on which it is expected that work will start in the summer of 1960. Only those contractors with the necessary equipment and experience will be selected.

Applications are to be received by the CITY SURVEYOR, Town Hall, Manchester, 2, on or before the 21st JANUARY, 1960.

COWES URBAN DISTRICT COUNCIL.

ANNUAL CONTRACTS, 1960-61.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING MATERIALS and SERVICES for a period of 12 Months from the 1st April, 1960:

- (1) Tared and Bituminous Macadam, Cold Asphalt Tar, and Bituminous Cold Emulsion.
- (2) Granite Limestone Chippings, Concrete Aggregate, Sand, Ashes and Hardcore.
- (3) Hire of Motor Lorries.
- (4) Tools, Dustbins, Washed Cleaning Rags.
- (5) Luorinating Oils.
- (6) Stoneware Pipes and Gully Pots, Concrete Flags, Kerbs and Pipes.

Forms of Tender may be obtained from the Council's Surveyor, Northwood House, Cowes, Isle of Wight.

Tenders, in plain sealed envelopes endorsed "Annual Tenders," should be delivered to the undersigned not later than the 5th FEBRUARY, 1960.

F. W. HEFFORD,
Clerk of the Council.

Northwood House,
Cowes, i. of W.

BOGNOR REGIS URBAN DISTRICT COUNCIL.

NEW COACH PARK—LONDON ROAD, BOGNOR REGIS.

FIXED-PRICE TENDERS are invited for the SUPPLY and ERECTION of a PREPARED PLACE, REGIONAL ADMINISTRATIVE BUILDING on the SITE of the COACH PARK, LONDON ROAD, Bognor Regis. Further details may be obtained upon application to the Engineer and Surveyor, Town Hall, Bognor Regis.

Tenders must be received by the undersigned not later than 5 p.m. on MONDAY, 1st February, 1960.

R. W. J. J.,
Clerk of the Council.

Town Hall,
Bognor Regis.

CONTRACTS

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

The WATCH COMMITTEE of the Corporation are prepared to receive TENDERS for the SUPPLY and INSTALLATION of a P.A.F. No. 4 AUTOMATIC TELEPHONE EXCHANGE with Cordless Switchboard required in the New Police Headquarters building now in course of erection in Market Street, Newcastle upon Tyne.

Drawings, Specification and Form of Tender may be obtained on application in writing to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, where Plans and Conditions of Contract may be seen.

Sealed Tenders must reach the City Architect not later than 10 a.m. on FRIDAY, 5th February, 1960. No tender will be received except in the official envelope provided, which must not bear any name or mark indicating the sender.

The Committee do not bind themselves to accept the lowest or any Tender.

JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
4th January, 1960.

CITY OF CARLISLE.

STREET LIGHTING.

TENDERS are invited for the ABOVE. The Work comprises Erecting approx. 120 Group "B" Steel or Aluminium Lighting Columns and Fitting and Wiring All Control Gear and Lamps for either Mercury Fluorescent or Sodium Lighting.

Particulars from City Surveyor, 18 Fisher Street. Closing date 20th JANUARY, 1960.

H. D. A. ROBERTSON,
Town Clerk.

CHERTSEY URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS, etc., during the year ending 31st March, 1961:

Concrete Kerbs, Edging Boards and Flag Paving, Concrete Pipes, Tubes and Gullies.

Granite Chippings.

Motor Spirit, Light Gas, Diesel, Deriv and T.V. Oil.

Mechanical Road Sweepers—Re-kristering of Brushes, Portland Cement and Lime.

Sand, Ballast, Shingle, Road Grit, etc.

Tar Sprayed on Roads.

Larmacadam—Gravel Aggregate.

Tarmacadam—Limestone, Slag Aggregate.

Bitumen Macadam—Limestone or Slag Aggregate.

Hot Process Road Asphalt—Granite, Gravel and Slag Aggregate.

Broken Coke.

Forms of Tender and Conditions of Contract may be obtained from the undersigned.

Tenders, in sealed envelopes endorsed "Tender for Street Lighting," must be delivered to the undersigned not later than Noon on WEDNESDAY, 3rd February, 1960.

N. C. GOLDSMITH,
Engineer and Surveyor.

Council Offices,
Chertsey, Surrey.
5th January, 1960.

ILKLEY URBAN DISTRICT COUNCIL.

CONSTRUCTION OF HUMUS TANKS.

TENDERS are invited for the CONSTRUCTION of TWO REINFORCED CONCRETE HUMUS TANKS at the SEWAGE DISPOSAL WORKS, BEN RHYDDING, Ilkley.

Conditions of Contract and Plans of the Works may be inspected upon application to the Borough Engineer and Surveyor, Town Hall, Ilkley.

Tenders, in plain sealed envelopes endorsed "Humus Tanks," must be delivered to the undersigned by 6th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

B. E. TOWNEND,
Clerk of the Council.

Town Hall,
Ilkley,
2nd January, 1960.

UTTOXETER URBAN DISTRICT COUNCIL.

ROADS AND SEWERS AT HEATH HOUSE ESTATE, UTTOXETER.

TENDERS are invited for the CONSTRUCTION of ROADS, FOOTPATHS and SEWERS, together with Manholes, Site Works, comprising approx. 3,000 sq. yd. of Carriageways and 2,000 sq. yd. of Footpaths, with Sewers up to a depth of approx. 9ft. and up to 9in. dia., with Brick Manholes.

Contract documents are obtainable from the Surveyor to the Council, Old Bank House Annex, High Street, Uttoxeter, on deposit of the sum of £3, which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn and the return of all other documents on request.

Copies of the Plans can be inspected by appointment at the Surveyor's Office.

Sealed Tenders, in a plain envelope endorsed "Roads and Sewers, Heath House Estate," should be delivered to the undersigned not later than Noon on the 29th JANUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

JOHN H. KENNY,
Clerk of the Council.

District Council Offices,
Old Bank House,
Uttoxeter,
1st January, 1960.

BRADFORD AND MELKSHAM RURAL DISTRICT COUNCIL.

SEMINGTON ROAD SEWERAGE SCHEME, MELKSHAM.

TENDERS are invited for the FOLLOWING WORKS:

- (1) The Laying of some 510yd. of 6in. dia. and 440yd. of 9in. dia. Stoneware Pipe.
- (2) The Laying of House Drainage Connections.
- (3) The Construction of an Ejector Station and Laying of 330yd. of 4in. dia. Spun-iron Rising Main.

Contract documents may be obtained from Mr. J. M. LOSWELL, M.I.M.E., A.R.I.C.S., Abbey House, Bradford-on-Avon, on payment of £2 2s., which will be returned on receipt of a bona-fide Tender by the stipulated date.

Drawings may be inspected at the Council's Offices during normal office hours.

Sealed Tenders, in the envelope provided, are to be delivered to the undersigned not later than Noon on 5th FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. E. WEEKS,
Clerk of the Council.

Abbey House,
Bradford-on-Avon.

CONTRACTS

GLAMORGAN COUNTY COUNCIL.
HIGHWAYS AND PLANNING DEPARTMENT.

TENDERS are invited for the SUPPLY ERECTION and PUTTING INTO SERVICE of EIGHT 140-W SODIUM LIGHTING UNITS at the ROUNDABOUT on ROUTE A-48, LONDON-FISHGUARD TRUNK ROAD, at its Junction with Route A-4050 at Culverhouse Cross.

Copies of the Specification and Bill of Quantities can be obtained from E. JOHN POWELL, C.B.E., M.I.C.E., M.I.Mun.E., County Surveyor and Planning Officer, Glamorgan County Hall, Cardiff.

Tenders must be addressed to the Clerk of the County Council, Glamorgan County Hall, Cardiff, and received not later than MONDAY, 25th January 1960, in a plain sealed envelope endorsed "Street Lightings—Junction A-48-A-4050."

The Council do not bind themselves to accept the lowest or any Tender, and the acceptance of any Tender is subject to the approval of the Ministry of Transport.

RICHARD JOHN,
Clerk of the County Council.

Glamorgan County Hall,
Cardiff.
4th January, 1960.

BOROUGH OF SURBITON.

ROAD IMPROVEMENT IN MAPLE ROAD.

TENDERS are invited for the RECONSTRUCTION of 80 lin. yd. of EXISTING HIGHWAY, in accordance with the Plans, Specification, Bills of Quantities and General Conditions of Contract, which may be obtained from the Office of MR. R. THIRLWAY, M.I.Mun.E., M.I.Struct.E., Borough Engineer and Surveyor, Council Offices, Ewell Road, Surbiton.

Tenders, on the form provided, enclosed in the endorsed envelope provided, and bearing no name or mark indicating the sender, must be delivered to the undersigned and received by him not later than Noon on FRIDAY, 22nd January, 1960.

JOHN H. A. CRUNDELL,
Town Clerk.

EAST DEVON WATER BOARD.

PINHAY DEVELOPMENT SCHEME.

CONTRACT P5 (AMENDED)—
SMALL HYDRO-PNEUMATIC BOOSTER PLANT.

TENDERS are invited from pump manufacturers for the SUPPLY and INSTALLATION of the ABOVE ELECTRICALLY POWERED PUMPING EQUIPMENT.

Further details of the Contract, including the Drawings, Conditions of Contract and Specification, can be obtained from the Engineer in Charge, at the address given below, and the completed documents must be returned to the undersigned not later than First Post on Monday, 8th February, 1960.

The documents must be sealed in the envelope provided, which must bear no indication of the person tendering, and the Board do not bind themselves to accept the lowest or any Tender.

D. G. BRUCE,
Clerk of the Board.

46 New Street,
Honiton,
5th January, 1960.

GREAT OUSE RIVER BOARD.

F.P.S.—PART III.

CALL FOR TENDERS.

FLOOD PROTECTION SCHEME.

The Great Ouse River Board invite TENDERS for the THIRD PART of the FLOOD PROTECTION SCHEME.

The main works comprise:

- (1) The Construction of the Cut-off Channel of a length of approx. 27 miles, between Barron Mill and Denver. The quantity of Excavation will amount to about 7 million cu. yd.
- (2) The Construction of the Division Channels, Sluices and Siphons at the Intersections of the Cut-off Channel with the Rivers Wissey and Little Ouse and of the Head Sluice at the River Lark.
- (3) The Construction of Road Bridges, Footbridges and Weirs, together with the Winstington Railway Bridge.

A copy of the Drawings and other Contract documents may be obtained on or after 18th January, 1960, from the Consulting Engineers, SIR M. MACDONALD AND PARTNERS, 72 Victoria Street, London, S.W.1, on payment of a deposit of £20, which is returnable to bona-fide tenderers.

Application for the documents must be in writing. Only Tenders from British and Commonwealth firms who have had experience in this class of work and who have, or can obtain, the necessary plant, will be considered.

Tenders must be received not later than Midday on 12th MARCH, 1960.

(Signed) K. M. RODDIS,
Clerk of the Great Ouse River Board.

Elmhurst,
Brooklands Avenue,
Cambridge.

NORTH DEVON WATER BOARD.

CONTRACT NO. 55.

CONSTRUCTION OF BICKHAM MOOR
SERVICE RESERVOIR.

TENDERS are invited from experienced contractors for the CONSTRUCTION of a REINFORCED CONCRETE COVERED SERVICE RESERVOIR, accompanied by Earthen Embankments, to contain 500,000 gallons, and other ancillary works in connection therewith, at Bickham Moor in the Parish of Oakford, at a point approx. 5½ miles west of Bampton and 10 miles east of South Molton.

Copies of the Specification, Bill of Quantities, and Form of Tender may be obtained from the Engineers, MESSRS. ROBERT ANDERSON & CO., BREWERS, Green, Euckingham Gate, Westminster, S.W.1, upon payment (by cheque only) of Two Guineas deposit, which will be repaid upon the receipt of a bona-fide Tender and the return of all documents and Drawings supplied.

The Contract Drawings may be inspected at the Office of the Engineers; or at the Office of the Chief Engineer (North), North Devon Water Board, Grenville House, Epsout Street, Exminster.

Prints of any of the Contract Drawings (three in number) will be supplied by the Engineers on receipt of an application for tendering contractors, accompanied by payment of 2s. 6d. per print, and undertaking to return same. Such payment will not be returnable and must not be included in the Two Guineas deposit.

Tenders, in plain sealed envelopes endorsed "Tender for Contract No. 55," to be sent to the undersigned not later than 12 Noon on the 13th FEBRUARY, 1960.

The Board does not bind itself to accept the lowest or any Tender.

R. T. SHEARS,
Clerk to the Board.

4 Barnfield Crescent,
Exeter.

CONTRACTS

WEST SUFFOLK COUNTY COUNCIL.

LONDON-NORWICH TRUNK ROAD, A.11.

BARTON MILLS ROUNDABOUT—LIGHTING.

TENDERS are invited for the SUPPLY and ERECTION of 14 STEEL COLUMNS and LINEAR SOURCE SODIUM DISCHARGE LAMPS in CUT-OFF LANTERNS at the ABOVE SITE. The mounting height is to be 35ft. and the Lamps of 200-watt power.

Documents and Layout Plan can be obtained from the County Surveyor, Manor House, Bury St. Edmunds, and Tenders are to be delivered to the undersigned at Shire Hall, Bury St. Edmunds, not later than 12 Noon on FRIDAY, 5th February. Acceptance is subject to the approval of the Ministry of Transport, and the Council do not bind themselves to accept the lowest or any Tender.

ALAN F. SKINNER,
Clerk of the County Council.

Shire Hall,
Bury St. Edmunds.

BEDFORDSHIRE COUNTY COUNCIL.

IPSWICH-WEEDON TRUNK ROAD, ROUTE A.428.

PRIORY FARM TO TURVEY RAILWAY BRIDGE.

TENDERS are invited for the WIDENING and REALIGNMENT of the TRUNK ROAD between the POINTS NAMED ABOVE for a length of approx. 800yd. The Works entail Clearing Site, Surface Water Drainage, Kerbing and the Construction of a 24ft. wide Carriageway with Dry Lean Concrete and Gravel Asphalt Base and Granite Asphalt Surfacing.

Copies of the Conditions of Contract, Specification and Bill of Quantities can be obtained from the County Surveyor, Deane Road, Bedford, upon payment of Two Pounds deposit, which will be refunded on receipt of a bona-fide Tender or the return of all documents before the closing date. The Drawings may be examined at the above office by appointment during working hours. Tenders must be returned to me by the 4th MARCH, 1960.

The Council do not bind themselves to accept the lowest or any Tender received.

GEORGE BREWIS,
Clerk of the County Council.

Shire Hall,
Bedford.

BOROUGH OF HEMEL HEMPSTEAD.

SUPPLY OF

REFUSE COLLECTION VEHICLE,
TRACK-LAYING DOZER/LOADER,
STREET LIGHTING MOBILE WORKSHOP.

TENDERS are invited for the SUPPLY and DELIVERY of the VEHICLES AFOREMENTIONED.

Particulars of requirements, together with Forms of Tender, may be obtained from A. H. TURNER, A.M.I.C.E., Borough Engineer, High Street, Hemel Hempstead, at whose office the General Conditions of Contract may be inspected during normal office hours.

Tenders, in sealed envelopes endorsed to indicate the type of vehicle offered, and bearing no mark or identification of the sender, must be delivered to me not later than Noon on MONDAY, 15th February, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

C. W. G. T. KIRK,
Town Clerk.

Town Hall,
Hemel Hempstead.
January, 1960.

LONG EATON URBAN DISTRICT COUNCIL.

COLD ASPHALT SURFACING.

TENDERS are invited for RESURFACING approx. 7,700 sq. yd. of CARRIAGEWAY at LONGMOOR ROAD, B.6002, particulars of which may be obtained from the undersigned.

Tenders, endorsed "Longmoor Road," must be received by MR. WM. E. STANLEY, Clerk of the Council, not later than SATURDAY, 30th January, 1960.

FRANCIS TURNER,
Engineer and Surveyor.

Town Hall,
Long Eaton.

URBAN DISTRICT COUNCIL OF PORTSLADE-UP-SEA.

(A.27) OLD SHOREHAM ROAD—WIDENING.

FIRST STAGE WORKS—VICTORIA RECREATION GROUND.

TENDERS are invited for the ABOVE WORKS, comprising approx. 10,000 cu. yd. of Excavation and Filling in Forming New Embankments and other ancillary works.

Forms of Tender, Specification, and Bill of Quantities may be obtained from the Engineer and Surveyor, W. E. RUDGLEY, M.I.Mun.E., Council Offices, Station Road, Portslade-up-Sea, on the receipt of a deposit of £2 2s., which is returnable on receipt of a bona-fide Tender and return of all documents.

General Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor during normal office hours.

Tenders are to be returned to the undersigned, in a plain sealed envelope endorsed "Tender for A.27—Widening—1st Stage Works," not later than FRIDAY, 22nd January, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. G. TOZER,
Clerk of the Council.

Council Offices,
Station Road,
Portslade-up-Sea, Sussex.
4th January, 1960.

PICKERING RURAL DISTRICT COUNCIL.

SINNINGTON SEWERAGE AND SEWAGE DISPOSAL SCHEME.

The Pickering Rural District Council are prepared to accept TENDERS for the CONSTRUCTION of approx. 2,300yd. of SEWERS, ranging from 6in. to 12in. dia., approx. 300yd. of 4in. dia. CAST-IRON PUMPING MAIN, with other ancillary Works; a SMALL PUMPING STATION and a DISPOSAL WORKS.

Plans may be inspected at, and Bills of Quantities and Forms of Tender obtained from, the offices of the undersigned, upon the deposit of a cheque for £5 5s., which will be returned upon the receipt of a bona-fide Tender not subsequently withdrawn, on or after 12th January, 1960.

Tenders should be returned to the undersigned in a plain sealed envelope endorsed "Sinnington Sewerage," on or before 30th JANUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. W. CARTER,
Clerk of the Pickering Rural District Council.

Council Offices,
38 The Mount, Potter Hill,
Pickering.
8th January, 1960.

CONTRACTS

STOKE-ON-TRENT CORPORATION.

TENDERS FOR STORES.

The Corporation invites TENDERS for the SUPPLY of the UNDERMENTIONED MATERIALS for 12 months ending 31st March, 1961:

- (A) Portland Cement.
- (B) Bricks.
- (C) Stoneware Pipes and Gullies.
- (D) Concrete Kerbs and Flags.
- (E) Granite Macadam and Chippings.
- (F) Limestone Macadam and Chippings.
- (G) Furnace Slag and Chippings.
- (H) Asphalt.
- (I) Sand and Gravel.
- (J) Pitch, Creosote Oil and Bituminous Compounds.
- (K) Cast-iron Work.
- (L) Ready-mixed Concrete.
- (M) Concrete Street Nameposts.
- (N) Picks, Shovels and General Ironware.
- (O) Oils and Greases.
- (P) Petrol.
- (Q) Soap, Soda, etc.
- (R) Brooms and Brushes.
- (S) Bath Towels, Dusters, etc.
- (T) General Stores.
- (U) Disinfectants.
- (V) Electric Lamps.
- (W) Protective Clothing (Overalls, Donkey Jackets and Rubber Boots).
- (X) Screened Gas Coke.

Specifications, Conditions and Forms of Tender may be obtained on application to the City Engineer and Surveyor, Town Hall, Stoke-on-Trent, and Tenders, in plain sealed envelopes endorsed "Stores Purchase Committee—Tender for—" (followed by the subject to which it relates), must be delivered to the undersigned not later than 12 Noon, MONDAY, 1st February, 1960.

Contractors are required to conform to the Standing Orders of the Council relating to Contracts.

HARRY TAYLOR,
Town Clerk.

COUNTY BOROUGH OF DUDLEY.

RESURFACING OF NEW ROWLEY ROAD.

APPLICATIONS TO TENDER are invited for the ABOVE CONTRACT, which consists of—

- 10,700 sup. yd. of Hot-rolled Asphalt.
- 2,800 sup. yd. of Bituminous Macadam to Foot-paths.
- 850 lin. yd. of Concrete Kerbing and ancillary Works.

Applications must be submitted to the Borough Engineer, The Council House, Dudley, Worcs., together with a deposit of £5 5s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents.

The latest date for the receipt of applications is THURSDAY, 28th January, and Tender documents will be forwarded as soon as possible after that date.

P. D. WADSWORTH,
Town Clerk.

The Council House,
Dudley,
Worcs.
5th January, 1960.

BOROUGH OF ENFIELD.

PUBLIC LIGHTING IMPROVEMENTS—
1959 SCHEME.

THE COUNCIL invite TENDERS as follows:

CONTRACT A: From manufacturers for the Supply and Delivery of about 237 Lanterns for 140-W Integral Jacketed Sodium Vapour Lamps, complete with Control Gear and Lamp, together with about Five 60-W Lanterns, Lamps and Gear.

CONTRACT B: From manufacturers for the Supply and Delivery of about 237 Normally Reinforced Concrete Columns and Brackets (25ft. mounting height), which must comply with B.S. 1308/1957 and bear the Certification Mark of the British Standards Institution. About Five Columns with 15ft. mounting height to lantern will also be required.

CONTRACT C: For the Erection of Columns, Brackets and Lanterns, and Removal of Steel and Cast-iron Columns.

The Specification, Bills of Quantities, Conditions of Contract and Forms of Tender for one or more of the Contracts may be obtained from MR. H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., upon payment of £2 deposit, returnable upon receipt of a bona-fide Tender and/or the return of all the documents.

The above documents and Plans can be inspected at the Borough Engineer's Office without charge during office hours (excluding Saturdays).

Tenders must reach the undersigned not later than Noon on MONDAY, 25th January, 1960, and no Tender will be received except in the official Tender envelope sealed and endorsed "Tender for Street Lighting Improvements—1959 Scheme." The Tender envelope shall not bear any mark or name indicating the sender.

Tenders should note that the Council does not bind itself to accept the lowest or any Tender.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield, Middx.
January, 1960.

CITY OF OXFORD.

NEW MARSTON RECREATION GROUND PAVILION.

TENDERS are invited for the CONSTRUCTION of a PERMANENT BRICK SPORTS PAVILION of approx. 900 sq. ft. floor area.

Tender documents may be obtained from the City Engineer, Town Hall, Oxford.

The Form of Tender must be returned by post to the Town Clerk, P.O. Box 7, Town Hall, Oxford, by 12 Noon, 8th FEBRUARY, 1960.

HARRY FLOWMAN,
Town Clerk.

Town Hall,
Oxford.

WILLENHALL URBAN DISTRICT COUNCIL.

FENCING AND GATES.

PROPOSED REFUSE TIP—BENTLEY LANE.

TENDERS are invited from fencing contractors for the PROVISION and ERECTION of 1,183 lin. yd. of 6ft. high CHAIN LINK FENCING on PRECAST CONCRETE BENTLEY POSTS with TWO SETS of 20ft. wide CHAIN LINK GATES.

Specification, Form of Tender and other necessary documents may be obtained from the Office of the Engineer and Surveyor.

Tenders, in envelopes endorsed "Fencing, Bentley Lane," are to be returned to the undersigned not later than Noon on the 22nd JANUARY, 1960.

JOHN R. RIDING,
Clerk of the Council.

Town Hall,
Willenhall.

CONTRACTS

COUNTY BOROUGH OF CROYDON.

FENCING.

TENDERS are invited for the SUPPLY and ERECTION of ALL or PART of the FOLLOWING:

- About 3,800 lin. yd. of W. I. Fencing;
- About 1,600 lin. yd. of Close Panelled Concrete Fencing;
- About 500 lin. yd. of Plastic Covered Chain Link Fencing.

on various sites within the Borough.

Tender Form, Specification and Drawings on application to the Borough Engineer, Town Hall, Croydon.

Tenders to be returned to me by 15th FEBRUARY, 1960.

E. TABERNER, Town Clerk.

CITY OF BRADFORD.

SEPARATE TENDERS are invited for the DEMOLITION and CLEARING of the FOLLOWING PROPERTIES:

- (1) Block E—Warehouse and Office Property, 2-6 stores high, bounded by Hall Ings, Bentley Street, Leeds Road and Louth Street. Approx. site area 2,086 sq. yd.
- (2) House Property Nos. 25-41 Brunswick Road, Greengates.
- (3) Brass Foundry and Machine Shop, No. 310 Wakefield.

Full particulars and Forms of Tender and Specification may be obtained from the City Engineer and Surveyor, and in the case of item (1) Block E a deposit with the Corporation of Two Guineas is payable and is returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders should be delivered in the envelopes provided, to reach the undersigned not later than 10 a.m., 1st FEBRUARY, 1960.

W. H. LEATHER, Town Clerk.

Town Hall, Bradford, 1.

URBAN DISTRICT COUNCIL OF LIDDULPH.

ANNUAL TENDERS—1960-61.

The Council invite TENDERS for the SUPPLY of the UNDERMENTIONED MATERIALS during the 12 months commencing 1st April, 1960, viz.:

- (1) Road Surfacing Materials—Tared and Bituminous Macadam; Dry and Precast Single-Slice Chippings; Crushed Stone/Slag; Tar and Emulsion.
- (2) Cement, Aggregates and Precast Concrete Goods—Cement; Sand; Gravel; Precast Concrete Kerbs; Channels; Flags and Fence Posts.
- (3) Plumbing and Sanitary Goods—Cylinders; Cisterns; Sinks; Lead; Copper and Alkathene Pipe; Taps; Valves and Fittings.
- (4) Building and Drainage Goods—Guttering; Wooden Fencing; S.G.W. Pipes; Fittings; Gullies; Brushes; Dustbins.
- (5) Cast-iron Goods—Manhole, Gully, Hydrant and Valve Covers.
- (6) Petrol, Oil and Lubricants.
- (7) Overalls.

Form of Tender and further particulars may be obtained from the Surveyor and Water Engineer, Council Offices, Liddulph.

Tenders, in plain sealed envelopes endorsed "Annual Tenders, 1960," but bearing no name or mark of identification of the sender, must be delivered to the Clerk of the Council by not later than First Post on MONDAY, 8th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender received, and reserve the right to accept a part Tender only.

ROBERT W. TRACE, Clerk of the Council.

Council Offices, Biddulph, Stoke-on-Trent.

CHERTSEY URBAN DISTRICT COUNCIL.

HEATHERVALE MUNICIPAL CARAVAN PARK, NEW HAW.

TENDERS are invited for the CONSTRUCTION of 1,350 sq. yd. CARRIAGEWAY, 2,150 sq. yd. ACCESS WAYS, 1,950 sq. yd. CAR PARK, 250 lin. yd. SOIL SEWER and 450 lin. yd. UNDERDRAINAGE, together with Site Clearance, Turfing, Post and Wire Fencing, and other incidental works.

Plans and General Conditions of Contract may be inspected at the Offices of the Engineer and Surveyor, Council Offices, Guildford Street, Chertsey, from whom Form of Tender, Specification and Bills of Materials may be obtained on payment of One Guinea deposit, which will be refunded on receipt of a bona-fide Tender and/or return of the document.

Tenders, in plain sealed envelopes endorsed "Heathervale Caravan Park," must be delivered to the undersigned not later than Noon on WEDNESDAY, 10th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

A. REX HERBERT, Clerk of the Council.

Council Offices, Chertsey.

EPPING AND ONGAR RURAL DISTRICT COUNCIL.

ROAD AND ANCILLARY WORKS.

PROPOSED CEMETERY—THEYDON BOIS.

Contractors are invited to APPLY TO TENDER for the ABOVE before 22nd JANUARY, 1960.

Drawings may be inspected at any time during normal office hours at the Department of the ENGINEER AND SURVEYOR, 209 High Street, Epping, who will supply Specification, Bill of Quantities, etc., on payment of £2 2s., which will be returned on receipt of a bona-fide Tender and return of all documents.

The lowest Tender will not necessarily be accepted.

GREAT OUSE RIVER BOARD.

HIRE OF PLANT.

TENDERS are invited for HIRE to the Board during Various Periods as may be required, between 1st April, 1960 and 31st March, 1961, of the FOLLOWING:

- (a) Luldrovers (35-h.p. to 90-h.p.).
- (b) Draglines (¾ cu yd. to ¼ cu. yd.).
- (c) Diesel Locomotives (24in. gauge).
- (d) Concrete Mixers (5½ to 10½ cu. ft.).
- (e) Compressors (10-220 cu. ft.).
- (f) Tipping Lorries (S.W.B. 7 and 5 tons).
- (g) Diesel Dumpers (3 cu. yd.).

Further particulars and Conditions of Contract may be obtained from the Engineer to the Board at the undermentioned address.

K. M. RODDIS, Clerk of the Board.

Elmhurst, Brooklands Avenue, Cambridge.

4th January, 1960.

CONTRACTS

BOROUGH OF MITCHAM.

THE CORPORATION invite TENDERS for MATERIALS AS UNDER for the term of 12 Months from the First Day of April, 1960.

- (1) Tools.
- (2) Dustbins.
- (3) Oilman's Goods, etc.
- (4) Brooms.
- (5) Gravel and Sand.
- (6) Portland Cement and Lime.
- (7) Electric Lamps.
- (8) Disinfectants.
- (9) Building Supplies (Ironmongery, etc.).
- (10) Artificial Stone Paving and Concrete Kerb.
- (11) Cold Bitumen Emulsion.
- (12) Cold Asphalt (Fine).
- (12a) Cold Asphalt (Coarse).
- (13) Tarmacadam.
- (14) Window Cleaning.
- (15) Fuel Oil.
- (16) Paint.
- (17) Overalls.
- (17a) Donkey Jackets.
- (18) Uniforms (Two Years).
- (19) Coke.
- (20) Soap.
- (21) Paint and Distemper Brushes.
- (22) Core of Transverse.

Specifications, Conditions of Contract and Forms of Tender, together with other information, can be obtained from the Borough Engineer and Surveyor, Town Hall, Mitcham.

Tenders, in sealed envelopes endorsed "Tender for Materials," but bearing no name or mark indicating the sender, must reach the undersigned not later than 12 Noon on THURSDAY, 28th January, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

R. H. WHITE, Town Clerk.

Town Hall, Surrey, 5th January, 1960.

BOROUGH OF NUNEATON.

BRIDGE STREET IMPROVEMENT.

TENDERS are invited for ROAD and BRIDGE WORKS in the CENTRE of NUNEATON.

The works comprise Bridge Deck in Universal Beams 24in. x 9in. x 84in. and 21in. x 84in. x 73in. In Concrete with normal Reinforced Concrete Abutments; Carriageway in Lean Concrete Granular Base 12in. thick with Bituminous Macadam Base and Hot Rolled As-halt Wearing Course, with Kerbing, Paving, and ancillary works.

Tender documents and Drawings are obtainable from the Borough Surveyor, Council House, Nuneaton. Deposit Two Guineas.

Tenders are to be returned to the undersigned, in the envelope provided, not later than 10 a.m. on SATURDAY, 6th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. A. CRABTREE, Town Clerk.

Council House, Nuneaton, January, 1960.

CITY OF MANCHESTER.

HOUSING COMMITTEE.

TENDERS, returnable by Noon, MONDAY, 25th January, 1960, are invited for the FOLLOWING:

- CONTRACT 317: 85 Dwellings—Maple Road, Brooklands.
- CONTRACT 318—Three Shops and 12 Flats—Greenwood Road East, Wythenshawe.

Documents obtainable from the DIRECTOR OF HOUSING (Room 626), Town Hall, Manchester, 2.

FAREHAM URBAN DISTRICT COUNCIL.

CONSTRUCTION OF HARD TENNIS COURT.

TENDERS invited for CONSTRUCTION OF HARD TENNIS COURT and SURROUND at BURRIDGE RECREATION GROUND.

Form of Tender and Specification, together with Layout Plan, on application to Engineer and Surveyor, Westbury Manor, Fareham, Hants.

Tenders to me by 10 a.m., 25th JANUARY, 1960.

B. W. RANDS, Clerk to the Council.

"Merton," 5 Grove Road, Fareham, Hants.

BEDWORTH URBAN DISTRICT COUNCIL.

ST. GILES ROAD, EXHALL.

TENDERS are invited for the RECONSTRUCTION of ST. GILES ROAD, consisting of improving approx. 200yd. in length, 465 lin. yd. of Kerbing, Drainage Works, and Surfacing.

Copies of the Specification, Bill of Quantities, and Forms of Tender may be obtained from, and the Drawings inspected at, the Offices of the Engineer and Surveyor, Council Offices, High Street, Bedworth, Nuneaton, on payment of a deposit of Two Guineas, refundable upon receipt of a bona-fide Tender and return of documents.

Tenders, enclosed in the envelope provided and endorsed "St. Giles Road Improvement," and not bearing any other name or mark indicating the sender, must reach the undersigned not later than SATURDAY, 30th January, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

S. G. DEEMING, Clerk of the Council.

Council Offices, High Street, Bedworth, Near Nuneaton.

WELLINGTON (SALOP) URBAN DISTRICT COUNCIL.

BOWRING RECREATION GROUND EXTENSION—STAGE TWO.

TENDERS are invited for the CONSTRUCTION of a CHILDREN'S PADDLING POOL and SAND-PIT.

Copies of the Form of Tender, Specification and Bills of Quantities may be obtained from, and the Drawings seen at, the Offices of the Engineer and Surveyor, 14 Walker Street, Wellington, upon payment of £2 2s. deposit, returnable upon receipt of a bona-fide Tender.

Tenders must be delivered to the undersigned in plain sealed envelopes, bearing no mark indicating the sender and endorsed "Tender for Bowring Recreation Ground Extension—Stage Two," not later than MONDAY, 8th February, 1960.

Specialist firms are invited to submit their alternative schemes for the construction of the paddling pool.

R. G. RUSHEN, Clerk of the Council.

5 Walker Street, Wellington, Shropshire.

6th January, 1960.

CONTRACTS

CUMBERLAND COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS for the year commencing 1st April, 1960:—

- (1) Tared and Bitumen Macadam.
- (2) Dry Granite or Whinstone Chippings.
- (3) Graded Surfacing and Foundation Stone (Granite, Whinstone, Limestone). Dry and Wet Mix.
- (4) Hired Rollers.
- (5) Bricks.
- (6) Tools.
- (7) Paint.
- (8) Petrol and Oils.
- (9) Stoneware Pipes.
- (10) Gully Gratings and Frames.
- (11) Explosives.
- (12) Cement.
- (13) Refined Tar for Hot Application only.
- (14) Bitumen and Proprietary Compounds for Hot Application only.

Forms of Tender may be obtained on application to the County Surveyor, Citadel Chambers, Carlisle. Application by post must be accompanied by a stamped addressed foolscap envelope, and returned not later than 10 a.m. on WEDNESDAY, the 3rd February, 1960.

The County Council do not bind themselves to accept the lowest or any Tender.

G. N. C. SWIFT, Clerk of the County Council.

The Courts, Carlisle, January, 1960.

BOROUGH OF ALTRINCHAM.

ANNUAL CONTRACTS.

TENDERS are invited for the SUPPLY of the UNDERMENTIONED MATERIALS for the year ending 31st March, 1961:—

- Fine Cold Asphalt.
- Bituminous and Tared Granite.
- Tar Compound.
- Granite Chippings.
- Basalt Limestone Chippings.
- Cement.
- Sanitary Pipes (G.S. and Concrete).
- Base Brooms.
- Gas Mantles.
- Motor Spirit (Commercial).
- Concrete Flags, Edgings and Kerbs.
- Rebristing of Brushes on Road Sweeper.
- Manhole Covers and Frames.
- Gully Grates and Frames.
- Graded Slag for Pitching.
- Concrete Lighting Columns.

Forms of Tender may be obtained on application to the Borough Surveyor, Town Hall, Altrincham.

Tenders, in a plain sealed envelope, endorsed "Tender for Materials," and addressed to the Chairman of the Central Purchasing Committee, must be delivered to the undersigned not later than Noon, FRIDAY, 29th January, 1960.

E. GRAHAM THOMAS, Town Clerk.

Town Hall, Altrincham, January, 1960.

BOROUGH OF WIMBLEDON.

ANNUAL SUPPLY OF MATERIALS.

TENDERS are invited for the SUPPLY of ALL or ANY of the FOLLOWING MATERIALS for the 12 months commencing 1st April, 1960:—

- (1) Salt Glazed Stoneware Pipes and Fittings.
- (2) Concrete Paving Slabs.
- (3) Aggregate, Sands and Grit.
- (4) Cement.
- (5) Lime.
- (6) Cold Bitumen Emulsion.
- (7) Granite Chippings.
- (8) Tarmacadam.
- (9) Fine Bituminous Cold Asphalt.

Forms of Tender and Specification may be obtained not later than JANUARY 28th, 1960, on written application to the BOROUGH ENGINEER, Town Hall, Wimbledon, S.W.19.

METROPOLITAN WATER BOARD.

TENDERS FOR THE SUPPLY OF STORES, ETC.

TENDERS are invited for the SUPPLY of the FOLLOWING STORES and SERVICES for the period of 12 months commencing 1st April, 1960:—

- Contract No. (1) Cement, Tarmacadam, Concrete Slabs, Earthware Bases, Firebricks, Fletton, Stock and Engineering Bricks.
- (2) Brushes, Brooms and Handles.
- (3) Cast- and Spun-Iron Straight Pipes, Cast-Iron Specials.
- (4) Uniform Clothing and Caps, Mechanic's Overalls, Rubber Boots, Shoes, etc.
- (5) Cotton Waste, Cleaning Cloth, Wipers, Hemp, Tarpaulins, etc.
- (6) Motor Tyres, Tubes, Batteries, Oils, etc.
- (7) Mild Steel Bars, Plates, Sheets, etc.
- (8) Black Bolts and Nuts, Screws, Files, Shovels, etc.
- (9) Lead, Pipe, Solder, Sheet, etc.
- (10) Fuel Oil, Kerosene, Motor Spirit.
- (11) Special Lubricating Oils.
- (12) Soaps, Polishes and Cleaners, Oilman's Sundries, Paper Towels and Toilet Rolls, etc.
- (13) Rubber and Canvas Insertion Sheet and Washers.
- (14) Suction, Delivery, Chemical and Fire Hose, etc.
- (15) Small Iron Castings, Valve, Hydrant and Stopcock Boxes, etc., Non-ferrous Castings.
- (16) Stopcocks, Ferrule Stopcocks, Unions, Disc Fittings, Hydrant Outlets and Caps.
- (17) Sluice Valves, Fire Hydrants and Parts, Extension Splindles, Hydrant Indicator Plates, etc.
- (18) Periodical Inspection, Repair and Maintenance of Weighing Apparatus.
- (19) Electric Lamps and Fluorescent Tubes.
- (20) Steam, Smithy and House Coal, and Coke.
- (21) Removal of Furnace Refuse.
- (22) Photo Prints, etc.

Tenders must be submitted on the official forms, which may be obtained from the Chief Engineer by personal application at the Offices of the Board (Room 171), or upon forwarding an addressed envelope (not smaller than 15in. x 10in.) and enclosing stamps value 1s. to cover postage, etc.

Applicants should refer to the number of the contract for which Tender Forms are required.

Tenders, enclosed in sealed envelopes, addressed to the undersigned, and endorsed in the manner indicated in the Form of Tender, must be delivered at the Offices of the Board (Room 122), not later than 12 Noon on THURSDAY, 4th February, 1960.

The Board do not bind themselves to accept the lowest or any Tender.

S. D. ASKEW, Clerk of the Board.

Offices of the Board: New River Head, Rosebery Avenue, London, E.C.1.

CONTRACTS

CITY OF BIRMINGHAM.
TO BUILDING CONTRACTORS.

CONTRACT 708-1 SHOP AND 2 DWELLINGS—
PAULKNERS FARM DRIVE.
WYRLEY BIRCH ESTATE, ERDINGTON.

The HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION of the ABOVE. Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 19th January, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bona-fide Tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders. Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No B.31), Council House, Birmingham, 1, not later than 12 Noon on THURSDAY, 18th February, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

J. F. GREGG,
Town Clerk.

Council House,
Birmingham, 1.

CITY OF BIRMINGHAM.
TO BUILDING CONTRACTORS.

CONTRACT G 18/51-38 LOCK-UP GARAGES—
JERVOISE ROAD, WOLEY CASTLE.

The HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION of BRICKWORK GARAGES at the ABOVE SITE. Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 19th January, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bona-fide Tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No B.31), Council House, Birmingham, 1, not later than 12 Noon on THURSDAY, 18th February, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

J. F. GREGG,
Town Clerk.

Council House,
Birmingham, 1.

CITY OF BIRMINGHAM.
TO BUILDING CONTRACTORS.

CONTRACT 606-12 TWO- AND THREE-STOREY
DWELLINGS—
LEY HILL ESTATE, NORTHFIELD.

The HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION of the ABOVE. Bills of Quantities and Form of Tender will be forwarded on payment of £2 2s. at the Office of A. G. SHEPPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 19th January, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposit will be returned on receipt of a bona-fide Tender, or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No B.31), Council House, Birmingham, 1, not later than 12 Noon on THURSDAY, 18th February, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

J. F. GREGG,
Town Clerk.

Council House,
Birmingham, 1.

BEDWORTH URBAN DISTRICT
COUNCIL.

HEATING AND PLANING—NEWTOWN ROAD,
BEDWORTH.

TENDERS are invited for the HEATING and PLANING of approx. 7,200 super. yd. TARMACADAM in Newtown Road, Bedworth.

Further particulars may be obtained on application to the Engineer and Surveyor, Council Offices, High Street, Bedworth, Nuneaton.

Tenders, to be submitted in the envelope provided, and endorsed "Newtown Road Reconstruction," and not bearing any other name or mark indicating the tender, must reach the undersigned not later than SATURDAY, 30th January, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

S. G. DEEMING,
Clerk of the Council.

Council Offices,
High Street,
Bedworth,
Near Nuneaton.

RAINFORD URBAN DISTRICT COUNCIL.

ROAD MATERIALS FOR YEAR ENDING
31st MARCH, 1961.

TENDERS are invited for SUPPLY of BROKEN STONE, ASHES, CONCRETE FLAGS and KERBS, TARMACADAM, EARTHENWARE PIPES, GULLIES, etc.

Particulars and Forms of Tender can be obtained from the Surveyor, Council Offices, Rainford, upon receipt of stamped addressed envelope.

Tenders, endorsed "Tender for Road Materials," in a plain sealed envelope bearing no name or mark indicating tender, must be in my hands by SATURDAY, 13th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

GEO. WALKER,
Clerk to the Council.

Council Offices,
Rainford, Lancs.
7th January, 1960.

CONTRACTS

LINDSEY COUNTY COUNCIL.
HIGHWAYS DEPARTMENT.

TENDERS are invited for the SUPPLY and ERECTION of PRESSURE CREOSOTED CLOSE BOARDED FENCING AND GATES at JACKSON'S CORNER, INGOLDMELLS, just north of Skegness. Specification and Form of Tender, obtainable from COUNTY SURVEYOR, County Offices, Lincoln, must be returned in the envelope provided not later than 27th JANUARY, 1960.

EAST SUSSEX COUNTY COUNCIL.

ROADS AND BRIDGES.

FIXED-PRICE TENDERS are invited for the year 1960-61 as follows:—

- (1) Coated and Uncoated Stone.
- (2) Premixed Waterbound Macadam, Asphaltic Concrete, Beach, Gravel and Sand.
- (3) Refined Tar and Cold Emulsion.
- (4) Hire of Haulage Vehicles.
- (5) Application of White Lines.
- (6) Fixing Road Studs.
- (7) Heating and Planing.
- (8) Application of Surfacing Materials by Barber-Greene.
- (9) Application of Surface Dressing.
- (10) Salt and Grass Seed.
- (11) Cast-Iron Gully Covers, Gratings and Frames, and G.S.S. Pipes.
- (12) Concrete Pipes, Kerbs and Paving.

Tender Forms may be obtained from the COUNTY SURVEYOR, County Hall, Lewes, and applications must state which are required.

Instructions for submission of Tenders are included on the forms, and the closing date is 12 Noon on MONDAY, 1st February, 1960.

DERBYSHIRE COUNTY COUNCIL.
GILDWELLS LANE, CLASS III, UPPER LANGWITH,
NEAR MANSFIELD—WIDENING AND
REALIGNMENT.

TENDERS are invited for IMPROVEMENT of the ABOVE ROAD (length approx. 300 lin. yd.), comprising Site Clearance, Earthworks, Drainage, Widening and Resurfacing of the existing Carriageway, Steam Diversion and other ancillary works.

Plans, etc., may be seen and Form of Tender, etc., obtained from the County Surveyor, County Offices, Matlock, on payment of Two Pounds deposit, cheques payable to Derbyshire County Council. Deposit will be refunded on signing Contract or notification of non-acceptance.

Tenders, in plain sealed envelope endorsed "Gildwells Lane Impmt. B. and H.," to be delivered to Clerk of the County Council, County Offices, Matlock, Derbyshire, by MONDAY, 1st February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

S. MEHEW,
County Surveyor.

County Offices,
Matlock.

COUNTY BOROUGH OF GREAT
YARMOUTH.

ANNUAL CONTRACTS.

The COUNCIL invite TENDERS for the SUPPLY of the FOLLOWING MATERIALS for a period of One Year from the 1st April, 1960:

- (1) Electric Cables.
- (2) Granite Chippings.
- (3) Precast Concrete Paving Flags.
- (4) Road Materials (Supply and Application)—
(a) Bituminous Emulsion.
(b) Bituminous Macadam.
(c) Fine Cold Asphalt.
(d) Hot Rolled Asphalt.

Specifications, Form of Tender and Conditions of Contract may be obtained from the Borough Engineer, Town Hall, Great Yarmouth.

Tenders, on the forms supplied, in a plain sealed envelope endorsed "Annual Contracts," must reach me not later than FRIDAY, 29th January, 1960.

No guarantee is given that the lowest or any Tender will be accepted.

FARRA CONWAY,
Town Clerk.

Town Hall,
Great Yarmouth.

12th January, 1960.

LEIGHTON BUZZARD URBAN DISTRICT
COUNCIL.

ANNUAL TENDERS, 1960/61.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS for the year ending 31st March, 1961:

- Schedule
(1) Granite Chippings.
- (2) Refined Tar and Bituminous Emulsion.
- (3) Tared and Bituminous Macadam and Cold Asphalt.
- (4) Precast Concrete Kerbs, Setts and Paving Slabs.
- (5) Ballast, Sand and Gravel.

Specifications, Stipulations of Contract and Forms of Tender may be obtained from the Engineer and Surveyor, Council Offices, North Street, Leighton Buzzard.

Completed Tenders, in a plain sealed envelope endorsed "Tender for Road Materials, Schedule —," must be delivered to the undersigned not later than 12 Noon on WEDNESDAY, 3rd February, 1960.

The Council does not bind itself to accept the lowest or any Tender, and reserves the right to accept any Tender in whole or in part for the supply of any materials.

D. L. OVERTON,
Clerk of the Council.

Council Offices,
North Street,
Leighton Buzzard.

6th January, 1960.

BOLLINGTON URBAN DISTRICT
COUNCIL.

28 HOMEVILLE TRADITIONAL BUNGALOWS
AT BOLLINGTON CROSS.

TENDERS are invited for the ERECTION of 28 BUNGALOWS, with Roads, Sewers and Water Mains. Forms of Tender, Bill of Quantities, Drawings and General Conditions of Contract may be obtained from the office of the Engineer and Surveyor, Council Offices, Bollington, Macclesfield, on payment of a deposit of £20.

Tenders, enclosed in the envelope provided, must be returned to the Clerk of the Council not later than 12 Noon on MONDAY, 15th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. E. F. DEAR,
Clerk of the Council.

Council Offices,
Bollington,
Macclesfield.

6th January, 1960.

CONTRACTS

DENBIGHSHIRE COUNTY COUNCIL.
PRIVATE STREET WORKS ACT, 1892.

PARK ROAD, PONCIAU.

TENDERS are invited for MAKING-UP the ABOVE-MENTIONED ROAD, involving the Construction of approx. 1,050 sq. yd. of Tarmacadam Carriageway, together with Kerbing, Footway, Surface Water Drainage, and other incidental works.

Copies of the Contract Drawings may be inspected at the Offices of the County Surveyor, 46 Clwyd Street, Ruthin, Denbighshire, from whom copies of the Form of Tender, General Conditions of Contract, Specification and Bill of Quantities may be obtained on payment of a deposit of £2 2s., which will be returned only on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Private Street Works," must be sent to the undersigned not later than SATURDAY, 6th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. E. BUFTON,
Clerk of the County Council.

County Offices,
Ruthin.

WATFORD CORPORATION WATER
DEPARTMENT.

SUPPLY OF SALT FOR WATER SOFTENING
PLANT.

TENDERS are invited for the SUPPLY of SALT for Base-exchange Softening Plant Regeneration Purposes, for year ending 31st March, 1961.

The Specification and Form of Tender can be obtained on application to the Borough Water Engineer and Manager, Town Hall, Watford.

Tenders must be delivered to the Town Hall, Watford, not later than 2 p.m. on MONDAY, 1st February, 1960, and must be sealed in the official envelope provided.

The Corporation do not bind themselves to accept the lowest or any Tender.

GORDON H. HALL,
Town Clerk.

Town Hall,
Watford.

METROPOLITAN BOROUGH OF
STEPNEY.

RATCLIFFE HOUSE HOUSING SCHEME.

CONTRACT NO. 778.

TENDERS are invited for the ERECTION of TWO CONNECTED BLOCKS each of Ten Maisonnettes Four Storeys high.

Forms of Tender, with Conditions, etc., obtainable from the Borough Engineer and Surveyor, Municipal Offices, 227/233 Commercial Road, E.1, upon payment of a deposit of Ten Guineas.

Closing date for Tenders: 8th FEBRUARY, 1960.

WILFRED REEVE,
Town Clerk.

Town Hall,
Stepney.

ROYAL BOROUGH OF KINGSTON-UPON-
THAMES.

TENDERS are invited for the SUPPLY and LAYING of 400 lin. yd. of PLASTIC WHITE LINES and other CARRIAGEWAY MARKINGS.

Contract documents from the Borough Surveyor, Guildhall, Kingston-upon-Thames, on deposit of £2 2s., returnable on receipt of bona-fide Tender not subsequently withdrawn.

Closing date, First Post TUESDAY, 26th January, 1960.

A. B. ROGERS,
Town Clerk.

Guildhall,
Kingston-upon-Thames.

5th January, 1960.

ROYAL BOROUGH OF KINGSTON-UPON-
THAMES.

KINGSTON CEMETERY.

TENDERS are invited for SURFACE DRESSING of MAIN DRIVE and CONSTRUCTION of CARRIAGEWAY and FOOTPATH.

Contract documents from Borough Surveyor, Guildhall, Kingston-upon-Thames, on deposit of £2 2s., returnable on receipt of bona-fide Tender not subsequently withdrawn.

Tenders in undesignated by First Post on TUESDAY, 26th January, 1960.

A. B. ROGERS,
Town Clerk.

Guildhall,
Kingston-upon-Thames.

4th January, 1960.

BOROUGH OF BROMLEY.

TENDERS are invited for the SUPPLY and ERECTION of 21 PRECAST CONCRETE GARAGES in TWO BATTERIES on a Council Housing Estate.

Contractors wishing to tender for this work should apply for a Specification and Form of Tender to the Borough Engineer at these Offices.

Tenders should be returned to the Town Clerk, in the envelope provided, not later than MONDAY, 1st February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

LIONEL KAYE,
Town Clerk.

Municipal Buildings,
Bromley, Kent.

BOROUGH OF HESTON AND
ISLEWORTH.

ALTERATIONS AND TEMPORARY ADDITIONS.
TO CENTRAL LIBRARY, TREATY ROAD,
HOUSLOW.

TENDERS are invited for the ABOVE WORKS. Firms wishing to tender should apply to the Borough Engineer and Surveyor, 88 Lampton Road, Houslow.

Tenders are to be forwarded in the envelopes provided, bearing the words "Tender—Central Library, Treaty Road," but not indicating the tender, in use by 10 a.m. on WEDNESDAY, 3rd February, 1960.

The Council are not bound to accept any Tender.

ESTATE OFFICE AND 10 GARAGES ON
CRANFORD LANE HOUSING ESTATE, HESTON.

TENDERS are invited for the ERECTION of an ESTATE OFFICE and 10 BRICK-FULL GARAGES.

Firms wishing to tender should make application to the Borough Engineer and Surveyor, 88 Lampton Road, Houslow.

Tenders must be received by the undersigned, in the envelope provided, by 10 a.m. WEDNESDAY, 17th February, 1960.

The Council are not bound to accept any Tender.

D. MATHIESON,
Town Clerk.

Town Hall,
Houslow, Middx.

CONTRACTS

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

The West Riding General Purposes Committee invites TENDERS for ADAPTATION WORKS at MOORLANDS CAMP, WETHERBY, to PROVIDE DIVISIONAL OFFICE ACCOMMODATION.

The Contract will be under the R.I.B.A. Conditions of Contract. Specifications, etc., may be obtained on application to the Divisional Architect, Salisbury Building, Albert Street, Harrogate.

Sealed Tenders to be received by me, the undersigned, at Room 49, County Hall, Wakefield, not later than 12 Noon on MONDAY, the 1st February, 1960.

BERNARD KENYON,

Clerk of the County Council.

COUNTY BOROUGH OF GRIMSBY.

EDUCATION COMMITTEE.

EDWARD PRIMARY INFANTS' SCHOOL REMODELLING.

The Education Committee of the Town Council invites FIXED-PRICE TENDERS for the FOLLOWING WORKS required for the remodelling of Edward Primary Infants' School, Edward Street, Grimsby:

- (a) General Building Contract, comprising Alterations and Extensions to the Existing Single-storey Buildings, together with Drainage and other ancillary works.
- (b) Heating and Hot Water Installations with Oil-fired Boiler Plant.
- (c) Electrical Installations.

Bills of Quantities, Specifications and Forms of Tender may be obtained, and Drawings and General Conditions of Contract, at the Office of MR. J. V. OLDFIELD, L.R.I.B.A., Borough Engineer and Architect, Municipal Offices, Town Hall Square, Grimsby, during ordinary office hours, on deposit of £5 for each Contract, which will be refunded on receipt of bona-fide Tenders or on return of all documents within one week of receipt.

The acceptance of a Tender will be subject to the approval of the appropriate Ministry Department and the Corporation does not bind itself to accept the lowest or any Tender, nor will it be liable for any expenses incurred by contractors in tendering.

Tenders must be submitted in plain envelopes, bearing no mark or indication of the sender, sealed and endorsed "Edward Primary Infants' School—Remodelling." Contract (a), (b) or (c), and must be delivered to the Office of the undersigned not later than 10 a.m. on SATURDAY, the 13th February, 1960.

R. E. RICHARDSON,

Director of Education.

Education Offices,
Eleanor Street,
Grimsby,
January, 1960.

BOROUGH OF ROMFORD.

FORD VAN.

TENDERS are invited for the SUPPLY of one FORD SEV. VAN.

Full particulars and Tender Forms may be obtained from the Borough Engineer and Surveyor, and completed forms must be sent to the TOWN CLERK, Town Hall, Romford, by MONDAY, 25th January.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

PRIVATE STREET WORKS.

WESTBOURNE AVENUE (PART), EMSWORTH.

FIXED-PRICE TENDERS are invited for the EXCAVATION TO FORMATION LEVEL, the PROVISION AND LAYING OF HARDCORE or 6in LEAN CONCRETE as Base to 690 sq. yd. of CARRIAGEWAY SURFACING, the PROVISION AND LAYING OF 230 lin. yd. of KERB, the CONSTRUCTION OF 500 sq. yd. of FLEXIBLE FOOTWAY, 190 sq. yd. of VERGES, 70 lin. yd. of 9in. dia. SURFACE WATER SEWER, 95 lin. yd. of 9in. dia. S.G.S.W. Soil Sewer House Connections, and ancillary works.

Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom the Specifications, Bills of Quantities and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered to the CLERK OF THE COUNCIL, Town Hall, Havant, not later than 12 Noon on WEDNESDAY, 10th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

PRIVATE STREET WORKS.

BOSMERE ROAD (PART), HAYLING ISLAND.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION OF A SOIL SEWER, comprising 260 lin. yd. of 9in. dia. and 104 lin. yd. of 6in. dia. SPUN-IRON PIPE, PRECAST CONCRETE MANHOLES, 190 lin. yd. of 4in. dia. S.G.S.W. PIPE for House Connections, and ancillary works.

Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom the Specifications, Bills of Quantities and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered to the CLERK OF THE COUNCIL, Town Hall, Havant, not later than 12 Noon on WEDNESDAY, 10th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

SUNBURY - ON - THAMES URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS ACT, 1892.

ASH ROAD, SHEPPERTON.

TENDERS are invited for MAKING-UP the ABOVE-MENTIONED PRIVATE STREET with Hot Rolled Gravel Asphalt Carriageway, Artificial Stone Paving Footpaths, Concrete Kerbs and Channels, Concrete Surface Water Drainage, and ancillary works.

Drawings may be inspected at the Offices of the Engineer and Surveyor, from whom Tender documents may be obtained.

Tenders must be returned to the undersigned, in plain sealed envelopes, not later than 12 Noon on MONDAY, 1st February, 1960.

T. I. WATTS,

Clerk of the Council.

Council Offices,
Sunbury-on-Thames,
Middlesex,
14th January, 1960.

CONTRACTS

DURHAM COUNTY - COUNCIL.

TENDERS are invited for the SUPPLY and DELIVERY to Castle Eden Bridge of 25 PRESTRESSED CONCRETE BEAMS, each 42 lin. ft., to a prepared design.

Form and Conditions of Tender, Specification and Drawings may be obtained from the County Surveyor, Aykley Heads, Durham.

Tenders, in plain sealed envelopes endorsed "Pre-stressed Concrete Beams," are to be delivered to the undersigned not later than Noon on FRIDAY, 29th January, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. K. HOPE,

Clerk of the County Council.

Shire Hall,
Durham,
7th January, 1960.

BOROUGH OF STAMFORD.

ANNUAL CONTRACTS.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS and/or EXECUTION OF WORK for the period ending 31st March, 1961:

- (a) Tarrad Slag and/or Granite; Bituminous Macadam.
- (b) Clean Granite and Slag Chippings.
- (c) Gravel and Sand.
- (d) Pitching Stone.
- (e) Concrete Kerb and Edging.
- (f) Dressed Granite Edged Kerb.
- (g) Concrete Flags.
- (h) Sawn Natural Stone Flags.
- (i) Surface Dressing.
- (j) Petroleum Spirit.

Forms of Tender and Conditions of Contract may be obtained from the Borough Surveyor and Engineer, Town Hall, Stamford.

Tenders, sealed in the envelopes provided, and endorsed "Tender for Item ——" but bearing no other mark or name indicating sender, are to be delivered to the undersigned not later than FRIDAY, the 5th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. BEDFORD,

Town Clerk.

Town Hall,
Stamford.

BOROUGH OF SUTTON AND CHEAM.

ROAD MATERIALS AND STORES.

The BOROUGH COUNCIL invites TENDERS for the SUPPLY of the FOLLOWING MATERIALS and STORES for the year commencing 1st April, 1960, viz.:

- (1) Sand, Gravel and Ballast.
- (2) Precast Concrete Paving Slabs.
- (3) Precast Concrete Kerb.
- (4) Bitumen Macadam with Slag or Limestone Aggregate.
- (5) Hot Asphalt, Emulsion and Precast Chippings.
- (6) Tarmacadam with Slag or Limestone Aggregate.
- (7) General Ironmongery, Brooms, Erushes and Chandery.

The Council does not bind itself to accept the lowest or any Tender and reserves the right to accept a Tender either for the whole or any of the items comprised therein.

Forms of Tender may be obtained on application to MR. C. NEEDHAM, M.I.C.E., M.I.Mun.E., A.M.I.Struct.E., Borough Engineer and Surveyor, Municipal Office, Sutton, Surrey. Applicants must state the particular Tender Form required.

Samples should not be sent until requested.

Quotations for materials which do not comply with the Specification for the Tender will not be considered.

Tenders, which must be on the official form, should be forwarded in the envelope provided, endorsed "Tender for Materials (1) to (7)," as the case may be, bearing no indication of the name of the tender, to the Town Clerk, Municipal Offices, Sutton, Surrey, to reach him not later than 30th JANUARY, 1960.

A. PRIESTLEY,

Town Clerk.

Municipal Offices,
Sutton, Surrey.

BOROUGH OF WIDNES.

The CORPORATION invite TENDERS for the SUPPLY of the UNDERMENTIONED MATERIALS required in the Highways Department during the 12 months ending 31st March, 1961:

- (1) Portland Cement.
- (2) Broken Stone and Chippings.
- (3) Tar and Bitumen (Spraying Grades).
- (4) Castings.
- (5) Concrete Kerbs and Flags.
- (6) Tar and Bituminous Macadam.
- (7) Electrical Equipment.
- (8) Electric Lamps.
- (9) Gas Fittings and Mantles.

Forms of Tender, Specification, and envelopes in which the Tenders must be submitted, may be obtained from F. A. J. KNIGHT, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Widnes.

Tenders, in envelopes provided, to be forwarded to reach the undersigned not later than 9 a.m. on THURSDAY, 11th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FRANK HOWARTH,

Town Clerk.

Town Hall,
Widnes.

January, 1960.

BOROUGH OF CHELMSFORD.

ANNUAL TENDERS.

TENDERS are invited for SUPPLY of the UNDERMENTIONED MATERIALS and HIRE OF PLANT for the year ending 31st March, 1961:

- (i) Precast Concrete Flags and Kerbs.
- (ii) Bitumen Macadam, Tarrad Macadam and Fine Cold Asphalt.
- (iii) Scavenging Brooms and Brooms for Lewin Road Sweeper.
- (iv) Gravel and Sand.
- (v) Motor Fuel.
- (vi) Ready Mixed Concrete.
- (vii) Precast Granite Chippings.
- (viii) Supply and Spreading of Tar.
- (ix) Hire of Mechanical Plant.

Form of Tender, Specification, and Conditions of Tender may be obtained on application to the Borough Engineer and Surveyor.

Completed Tenders are to be delivered in plain sealed envelopes endorsed "Annual Tenders" to the undersigned not later than Noon on FRIDAY, 5th February, 1960.

B. A. FRANCIS,

Town Clerk.

Municipal Offices,
Chelmsford,
January, 1960.

CONTRACTS

BOROUGH OF OLDBURY.

ERECTION OF LABORATORY BLOCK AT OLDBURY GRAMMAR SCHOOL.

TENDERS are invited, on a FIXED-PRICE BASIS, for the ERECTION of a TWO-STOREY LABORATORY BLOCK at OLDBURY GRAMMAR SCHOOL, MOAT ROAD, Oldbury.

Applications from contractors wishing to Tender should reach the Borough Engineer and Surveyor at Municipal Bank Chambers, Birmingham Street, Oldbury, not later than the 22nd January, 1960, accompanied by a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender which is not withdrawn, or upon return of all documents, not later than the closing date for the receipt of Tenders.

Bills of Quantities and Forms of Tender will be issued shortly afterwards, and sealed Tenders in the envelope provided and bearing no mark indicating the sender, must be delivered to the undersigned not later than 12 Noon on TUESDAY, the 16th of February, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

KENNETH PEARCE,

Town Clerk.

Municipal Buildings,
Oldbury,
January, 1960.

BOROUGH OF TOTTENHAM.

WEST ROAD AND HEYBOURNE DITCH FLOOD RELIEF SCHEME.

TENDERS are invited for the CARRYING OUT of the ABOVE SURFACE WATER DRAINAGE SCHEME, which comprises the Laying of Main Sewers in Roads, Open Spaces and under British Railways Main Cambridge Line, in the Northern Part of the Borough.

The Work includes the Laying of over 1,600 lin. yd. of Sewers, ranging in size from 9in. to 57in. dia., together with Standard and Special Manholes, 8 in. yd. of in-situ Culvert and other ancillary works.

Plans may be inspected from Monday to Friday, between 9 a.m. and 5 p.m., at the Borough Engineer's Department, Town Hall, N.15, from whom Contract documents may be obtained on payment of £2 (returnable on receipt of a bona-fide Tender).

Closing date for receipt of Tenders is 12 Noon on MONDAY, 15th February, 1960.

M. LINDSAY TAYLOR, L.L.B.,

Town Clerk.

Town Hall,
Tottenham, N.15.

BOROUGH OF ENFIELD.

ANNUAL CONTRACTS FOR THE SUPPLY OF MATERIALS, ETC.

The CORPORATION invites TENDERS for the SUPPLY of the FOLLOWING ITEMS for the year ending 31st March, 1961:

- (a) Tarrad Macadam (Slag or Granite Aggregates).
- (b) Cold Asphalt, Asphalt Macadam and Bituminous Tack Coat.
- (c) Red Granite Chippings.
- (d) Shingle.
- (e) Pit Sand, etc.
- (f) Concrete Aggregate and Washed Sand.
- (g) Cement.
- (h) Brooms and Brushes.
- (i) Precast Concrete Flags.
- (j) Paint and Painters' Sundries.
- (k) Paint and Distemper Brushes.
- (l) Bitumen—Surface Spraying.
- (m) Natural Stone Kerb.

Applications for Specifications and Forms of Tender should indicate the Specification required as lettered above and should be accompanied by a stamped addressed envelope, and addressed to the Borough Engineer, 7 Little Park Gardens, Enfield.

The Tenders must reach the undersigned on or before the 8th FEBRUARY, 1960, and no Tender will be received except in a plain sealed envelope which must not bear any name or mark indicating the sender.

The Corporation does not bind itself to accept the lowest or any Tender.

CYRIL E. C. R. PLATTEN,

Town Clerk.

Public Offices,
Enfield.

1st January, 1960.

HINDLEY URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

DARBY LANE.

FIXED-PRICE TENDERS are invited for the WORK of MAKING-UP the ABOVE PRIVATE STREET, involving Kerb and Channel Work, Construction of Foundations to Carriageway, Carpeting, Footpath Work and Surface Water Gullies and Connections.

Form of Tender and other documents may be obtained from the Engineer and Surveyor on payment of a deposit of £2 2s., which will be returned after the receipt of a bona-fide Tender within the prescribed time.

Tenders, in plain sealed envelopes endorsed "Private Street Works, Darby Lane," to be delivered to the undersigned not later than 10 a.m. on FRIDAY, 29th January, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. HICKSON,

Clerk of the Council.

Town Hall,
Hindley.

January, 1960.

STAINES URBAN DISTRICT COUNCIL.

ROAD WORKS ANNUAL CONTRACT, 1960-61.

TENDERS are invited for the EXECUTION OF WORKS during the year commencing 1st April, 1960.

A Schedule covering the following items of General Maintenance and Minor Improvement Works is required to be priced and cover work throughout the Urban District:

- Take Up and Re-lay Kerb and Paving; Provide and Lay New Kerb and Paving; Footway Surfacing; Carriageway Surfacing; the Construction of Connections to the Main Sewer; and Construction of Carriage Crossings.

Copies of the Schedule, Form of Tender and Specification may be obtained from, and Conditions of Contract inspected at, the offices of the Engineer and Surveyor, "Shortwood House," 240 London Road, Staines, on receipt of a deposit of £2 2s., which will be returned on the receipt of a bona-fide Tender not subsequently withdrawn.

Completed Tenders must be returned, in the envelope provided, to the undersigned not later than 5 p.m. on THURSDAY, the 4th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. LINTWISTLE,

Clerk of the Council.

"Elmsleigh,"
73 High Street,
Staines,
Middlesex.

CONTRACTS

BOROUGH OF KEIGHLEY.
BOROUGH ENGINEER'S DEPARTMENT.

The CORPORATION invite TENDERS for the SUPPLY of the FOLLOWING MATERIALS during the year ending 31st March, 1961:—

- (1) Pitch and Cressote Oil.
- (2) Ironmongery.
- (3) Ironwork.
- (4) Glazed Ware Pipes.
- (5) Portland Cement.
- (6) Granite Chippings and Dry and Bituminous Granite.
- (7) Dry Limestone.
- (8) Tarrad Limestone.
- (9) Bricks.

Forms of Tender may be obtained from the undersigned. Tenders to be delivered at the Town Clerk's Office, Town Hall, Keighley, not later than 10 a.m. on MONDAY, 1st February, 1960.

R. COURTENAY GIBSON,

A.M.I.C.E., M.I.Mun.E.
Borough Engineer and Surveyor.College Street,
Keighley.**BOROUGH OF KEIGHLEY.**
LOW BANK LANE HOUSING ESTATE.

TENDERS are invited for the CONSTRUCTION of ROADS AND SEWERS in connection with the ABOVE HOUSING ESTATE of approx. 80 houses. Drawings and General Conditions of Contract may be seen at the Borough Engineer's Office, College Street, Keighley, during normal office hours.

The Specification and Bill of Quantities, which must be returned fully priced with the Form of Tender, will be forwarded on application.

Sealed Tenders, on the official forms and in the envelope provided for the purpose, endorsed "Roads and Sewers—Low Bank Lane Housing Estate," are to be delivered to the undersigned not later than 10 a.m. on MONDAY, 15th February, 1960.

H. W. SMITH,
Town Clerk.Town Hall,
Keighley.**BOROUGH OF NEWBURY.**
ANNUAL TENDERS.

The CORPORATION invite TENDERS for the SUPPLY of the UNDERMENTIONED MATERIALS and SERVICES for the 12 months commencing 1st April, 1960:—

- (1) Tarmacadam.
- (2) Shingle for Tarring and Concrete Ballast.
- (3) Cleaning Windows of Public Buildings.
- (4) Lorry Hire.
- (5) Coke and Coal.

Further particulars and Forms of Tender can be obtained from the Borough Engineer, and applicants must state the particular form or forms they require.

Tenders, in plain sealed envelopes, endorsed "Tender for ———," must be delivered to the undersigned not later than TUESDAY, 2nd February, 1960.

LESLIE SOUTHERN,
Town Clerk.Municipal Buildings,
Newbury, Berks.**BOROUGH OF NEWBURY.**
SEWAGE EFFLUENT PUMPING STATION.

TENDERS are invited for the SUPPLY and INSTALLATION of Three Electrically driven Vertical Spindle Suspended Axial Flow PROPELLER PUMPS, each capable of dealing with 2,014 gallons per minute.

Specification, Drawings and Forms of Tender may be obtained from the Borough Engineer, Municipal Buildings, Newbury, at whose Office the Conditions of Contract may be inspected.

Tenders, endorsed "Sewage Effluent P.S.," to be received by the undersigned not later than SATURDAY, 6th February, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

LESLIE SOUTHERN,
Town Clerk.Municipal Buildings,
Newbury, Berks.**BOROUGH OF MIDDLETON.**
PRIVATE STREET WORKS.HILL STREET, VINCENT STREET,
BAMFORD AVENUE, SMITHIES AVENUE.

TENDERS are invited for the MAKING-UP of Hill Street, Vincent Street, Bamford Avenue and Smithies Avenue, involving the Construction of 2,100 sq. yd. of Carriageway, 1,400 sq. yd. of Footways, and ancillary works.

Plans may be inspected during normal office hours, and the copies of the Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Engineer and Surveyor, Town Hall, Middleton, upon deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Private Street Works," must be delivered to the undersigned not later than Noon on SATURDAY, 30th January, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. JOHNSTON,
Town Clerk.Town Hall,
Middleton,
Manchester.**URBAN DISTRICT COUNCIL OF NORTHWICH.**

TENDERS FOR MATERIALS.

TENDERS are invited for the SUPPLY and DELIVERY of the UNDERMENTIONED MATERIALS during the year ending 31st March, 1961:—

- (1) Tarmacadam.
- (2) Bitumen Macadam.
- (3) Concrete Flags.
- (4) Concrete Kerbs.
- (5) Crushed Dry Slag.
- (6) Granite Chippings.
- (7) Crushed Gravel.
- (8) Grit Sand.
- (9) Wetmix.

And for the Purchase of Scrap Metal. Specifications and Forms of Tender may be obtained on application to the Engineer and Surveyor, The Council House, Church Road, Northwich.

Tenders, in plain sealed envelopes, endorsed "Tender for Materials," should be delivered to the undersigned not later than 10 a.m. on SATURDAY, 30th January, 1960.

The Council reserve the right to accept part of a Tender, and do not bind themselves to accept the lowest or any Tender.

H. D. HOCKING,
Clerk of the Council.The Council House,
Northwich.

CONTRACTS

GLAMORGAN COUNTY COUNCIL.
HIGHWAYS ACT, 1959.

TO PUBLIC WORKS CONTRACTORS.

The Glamorgan County Council invite SEPARATE TENDERS for the MAKING-UP of the FOLLOWING PRIVATE STREETS:

- (1) Oakdale Road, Penrhwyf, the principal works comprising: Carriageway, 650 super. yd.; Footpaths, 280 super. yd.; Kerbing, 180 lin. yd.; and incidental works.
- (2) Glenavon Terrace, Giffach Goch, the principal works comprising: Carriageway, 1,500 super. yd.; Footpath, 140 super. yd.; Kerbing, 340 lin. yd.; and incidental works.

Specifications, Bills of Quantities and Forms of Tender can be obtained from the County Surveyor, County Hall, Cardiff, on payment of a deposit of £3 in respect of each Tender document, which will be returned (subject to the Conditions of the Tender) on receipt of a bona-fide Tender and the return of all the documents supplied. General Conditions of Contract and Drawings may be seen at the Offices of the County Surveyor during normal working hours.

Contractors will be required to pay the recognised rates of wages and to observe the recognised hours of labour. Sealed Tenders, made out on the prescribed form and accompanied by the priced Bill of Quantities, are to be delivered at the County Hall, Cardiff, by First Post on the 15th FEBRUARY, 1960, addressed to the Clerk of the County Council and marked "on the outside" "Tenders for Private Street Works."

The Council will not necessarily accept the lowest or any Tender.

RICHARD JOHN,
Clerk of the County Council.Glamorgan County Hall,
Cardiff.

14th January, 1960.

COUNTY BOROUGH OF HUDDERSFIELD.
WATERWORKS DEPARTMENT.

TENDERS are invited for the COVERING of CIRCULAR SERVICE RESERVOIRS at LADYHOUSE LANE, NEWSOME, Huddersfield, and CLOUGH HEAD, LONGWOOD, Huddersfield, with SINGLE-SPAN LIGHT ALLOY (or similar) ROOFS.

The successful tenderer will be required to execute Contracts, the draft of which may be inspected at the Town Clerk's Office between 10 a.m. and 4 p.m.

The General Conditions may be seen, and Plans, Forms of Tender and Specifications obtained from the Waterworks Engineer, 24 Ramsden Street, Huddersfield, deposit Two Guineas (returnable on receipt of a Tender not subsequently withdrawn).

Sealed Tenders, endorsed "Tender for Covering Ladyhouse Service Reservoir" and "Tender for Covering Clough Head Longwood Service Reservoir," signed in the handwriting of the tenderer or his agent, should reach the undersigned not later than 10 a.m. on 15th FEBRUARY, 1960.

HARRY BANN,
Town Clerk.Town Hall,
Huddersfield.**COUNTY BOROUGH OF CROYDON.**
NEW HOSTEL FOR 60 OLD PEOPLE.

Contractors wishing to TENDER for BUILDING a NEW HOSTEL on ASHBURTON HOUSING ESTATE are invited to apply to the Borough Engineer, Town Hall, Croydon, for the Tender Form and Bills of Quantities.

Closing date for Tenders: 12 Noon on 17th FEBRUARY, 1960.

E. TAERNER,
Town Clerk.Town Hall,
Croydon.**METROPOLITAN BOROUGH OF CAMBERWELL.**

ASPHALT PAVING WORKS.

TENDERS are invited for the FOLLOWING to be laid on Existing Foundations:

- (a) Mastic Asphalt with Rock Non-skid Finish: Old Kent Road—1,550 sq. yd. approx.
- (b) Two Course Hot Rolled Asphalt (B.S.S.594:1958): Half Moon Lane—2,000 sq. yd. approx.

Contract documents from BOROUGH ENGINEER AND SURVEYOR, Town Hall, Camberwell, S.E.5.

Closing date: 15th February, 1960.

BOROUGH OF HEMEL HEMPSTEAD.

ANNUAL CONTRACTS.

TENDERS are invited for the SUPPLY of MATERIALS LISTED BELOW during the fiscal year 1960-61.

The Specifications and Forms of Tender may be obtained from A. H. TURNER, A.M.I.C.E., Borough Engineer, High Street, Hemel Hempstead, Herts.

Each of the following groups of materials will be the subject of a separate contract:—

- (1) Heavy Castings—Manhole Covers, Gullies, etc.
- (2) Light Castings—Hydrant Covers, Valve Covers, etc.
- (3) Stonecrops and Ferrules.
- (4) Cast-Iron Pipes and Specials.
- (5) Sluice Valves.
- (6) Copper Tubes and Fittings.
- (7) Paving Slabs and Kerbs.
- (8) Drainage, Kerbing, Footpath and other Roadwork.
- (9) Asphaltic Bitumen Road Emulsion for Cold Application.
- (10) Surface Dressing of Roads, Footpaths and Verges.
- (11) Granite Chippings and Granite Dust.
- (12) Tarmacadam Bitumen and Cold Fine Asphalt.
- (13) Sand, Ballast, Shingle, Grit and Hoggin.
- (14) Roadman's Tools.
- (15) Tyres.
- (16) Stationery.
- (17) Gas Mantles.
- (18) Gas Lanterns (Public Lighting).
- (19) Repairs to Time Switches.
- (20) Cleaning Materials.
- (21) Electric Lamps.
- (22) Dustbins and Refuse Skips.
- (23) Protective Clothing.
- (24) Building Materials.
- (25) Plastic Road Marking Lines.
- (26) Excavating for and Laying Water Mains, etc.
- (27) Motor Fuels.
- (28) Baling Wire.
- (29) Weedkillers.
- (30) Concrete Pipes, Manhole Parts, Gully Pots, etc.
- (31) Glazed Stoneware Pipes and Fittings.
- (32) Ready Mixed Concrete.
- (33) Ready Mixed Mortar for Paving.

Tenders, in sealed envelopes, endorsed with the name of the materials to be supplied, and bearing no mark or indication of the sender, must be delivered to me not later than Noon on the 1st FEBRUARY, 1960. The Corporation do not bind themselves to accept the lowest or any Tender.

C. W. G. T. KIRK,
Town Clerk.Town Hall,
Hemel Hempstead, Herts.

1st January, 1960.

CONTRACTS

COUNTY BOROUGH OF SOUTHAMPTON.
SHIRLEY WARREN SURFACE WATER CULVERT.

The COUNCIL invites TENDERS for the CONSTRUCTION of approx. 230yd. of 48in. dia. CULVERT in ARMO CORRUGATED STEEL PIPES on a site off WARREN AVENUE, SHIRLEY. Interested contractors should apply for documents to the BOROUGH ENGINEER AND SURVEYOR, Civic Centre, Southampton, before 25th JANUARY, 1960.

BOROUGH OF DAGENHAM.
DAGENHAM COUNTY HIGH SCHOOL.

TENDERS are invited for the NECESSARY ALTERATIONS AND EXTENSIONS to the ABOVE SCHOOL to provide One Additional Science Laboratory and Demonstration Room.

Drawings and General Conditions of Contract may be inspected during normal office hours. Forms of Tender and Bills of Quantities may be obtained from the Borough Surveyor on payment of £2 2s., refundable on receipt of a bona-fide Tender.

Closing date for receipt of Tenders: Noon, FRIDAY, 5th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

KEITH LAUDER,
Town Clerk.Civic Centre,
Dagenham.**BOROUGH OF LOUGHBOROUGH.**
ROAD MATERIALS.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS required during the year ending 31st March, 1961:—

- (a) Concrete Flags and Kerb.
- (b) Bituminous Macadam, etc.
- (c) Granite.
- (d) Portland Cement.

Forms of Tender for all or any of the above may be obtained on application to the undersigned and must be delivered in plain sealed envelopes to ARTHUR USHER, Town Clerk, Southville, Loughborough, not later than 12 Noon on FRIDAY, 5th February, 1960.

JOHN S. BATES, A.M.I.C.E., M.I.Mun.E.,
A.M.T.P.I.,
Borough Surveyor.Southville,
Loughborough.

8th January, 1960.

BOROUGH OF SHREWSBURY.
ANNUAL TENDERS.

TENDERS are invited for the SUPPLY of the FOLLOWING for the year ending 31st March, 1961:—

- | No. | Description |
|------|--|
| (1) | Stoneware Pipes and Fittings. |
| (2) | Bricks. |
| (3) | Cement. |
| (4) | Dustbins. |
| (5) | Manhole Covers, Gully Grates, etc. |
| (6) | Cast-Iron Fencing and Oak Posts. |
| (7) | Sanitary Ware and Fittings. |
| (8) | Building Sand. |
| (9) | Concrete Aggregates. |
| (10) | Concrete Kerbs and Flags. |
| (11) | Asbestos-Cement Rainwater and Soil Pipes and Fittings. |
| (12) | Concrete Road Gullies. |
| (13) | Hardcore Chippings and Gritting Gravel. |
| (14) | Tarmacadam, Bitumen Macadam and Coated Chippings. |
| (15) | Oils and Paraffin. |
| (16) | Hand Brooms. |

Particulars and Forms of Tender for items required may be obtained from the Borough Surveyor, Guildhall, Shrewsbury, on receipt of a stamped addressed foolscap envelope.

Tenders, in the envelope provided, without name or mark indicating sender, to be received by the undersigned not later than 10 a.m. on MONDAY, the 22nd February, 1960.

S. R. H. LOXTON,
Town Clerk.Guildhall,
Shrewsbury.**CITY OF MANCHESTER.**

TENDERS invited for EXTENSIONS and ALTERATIONS to NELSON STREET JUNIOR and INFANTS' SCHOOL, MILES PLATING. Bills of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders received by 3rd FEBRUARY, 1960.

WILTON RURAL DISTRICT COUNCIL.

CLATWORTHY WATER SUPPLY SCHEME.

CONTRACT NO. 11.

WATER MAIN FROM WILLETTS TO BILBROOK.

TENDERS are invited for the FOLLOWING CONSTRUCTIONAL WORK: The Supply and Laying of 3,004yd. of Class "C" Asbestos-cement 8in. Water Main;

- | |
|---|
| 5,951yd. of Class "C" Asbestos-cement 7in. Water Main; |
| 1,195yd. of Class "D" Asbestos-cement 7in. Water Main; |
| 1,327yd. of Class "C" Asbestos-cement 6in. Water Main; |
| 1,565yd. of Class "C" Asbestos-cement 5in. Water Main; |
| 493yd. of Class "D" Asbestos-cement 5in. Water Main; |
| 622yd. of Class "C" Asbestos-cement 4in. Water Main; |
| 447yd. of Class "C" Asbestos-cement 3in. Water Main; |
| 177yd. of Class "D" Asbestos-cement 3in. Water Main; |
| 259yd. of Class "C" Asbestos-cement 6in. Surface Water Drain; |
| Sluice Valves, Washouts, Air Valves, Hydrants, etc.; |
| Ancillary Works. |

Drawings and Conditions of Contract will be available for inspection at the Office of the Engineer and Surveyor, MR. S. E. BALCH, A.M.I.Mun.E., Council Offices, Fore Street, Wilton, Taunton, Somerset, and the Form of Tender, Specification and Bill of Quantities can be obtained from the Engineer upon payment of a deposit of Three Guineas by cheque, which will be refunded on the receipt of a bona-fide Tender and the return of all documents.

Tenders must be delivered to the undersigned not later than Noon on MONDAY, 22nd February, 1960. The envelope should bear no name or mark indicating the identity of the sender.

The Council do not bind themselves to accept the lowest or any Tender.

F. P. RISDON,
Clerk.Council Offices,
Wilton, Taunton
8th January, 1960.

CONTRACTS

COUNTY COUNCIL OF THE WEST RIDING OF YORKSHIRE.

The West Riding General Purposes Committee invites TENDERS for ADAPTATION WORKS at MOORLANDS CAMP, WETHERBY, to PROVIDE DIVISIONAL OFFICE ACCOMMODATION.

The Contract will be under the R.I.B.A. Conditions of Contract.

Specifications, etc., may be obtained on application to the Divisional Architect, Salsbury Building, Albert Street, Harrogate.

Sealed Tenders to be received by me, the undersigned, at Room 49, County Hall, Wakefield, not later than 12 Noon on MONDAY, the 1st February, 1960.

BERNARD KENYON,
Clerk of the County Council.

COUNTY BOROUGH OF GRIMSBY.

EDUCATION COMMITTEE.

EDWARD PRIMARY INFANTS' SCHOOL REMODELLING.

The Education Committee of the Town Council invites FIXED-PRICE TENDERS for the FOLLOWING WORKS required in the Remodelling of Edward Primary Infants' School, Edward Street, Grimsby:

- (a) General Building Contract, comprising Alterations and Extensions to the Existing Single-storey Building, together with Drainage and other ancillary works.
- (b) Heating and Hot Water Installations with Oil-fired Boiler Plant.
- (c) Electrical Installations.

Bills of Quantities, Specifications and Forms of Tender may be obtained, and Drawings and General Conditions of Contract perused, at the Office of MR. J. V. OLDFIELD, L.R.I.B.A., Borough Engineer and Architect, Municipal Offices, Town Hall Square, Grimsby, during ordinary office hours, on deposit of £5 for each Contract, which will be refunded on receipt of bona-fide Tenders or on return of all documents within one week of receipt.

The acceptance of a Tender will be subject to the approval of the appropriate Ministry Department, and the Corporation does not bind itself to accept the lowest or any Tender, nor will it be liable for any expenses incurred by contractors in tendering.

Tenders must be submitted in plain envelopes, bearing no mark or indication of the sender, sealed and endorsed "Edward Primary Infants' School—Remodelling." Contract (a), (b) or (c), and must be delivered to the Office of the undersigned not later than 10 a.m. on SATURDAY, the 13th February, 1960.

R. E. RICHARDSON,
Director of Education.
Education Offices,
Eleanor Street,
Grimsby,
January, 1960.

BOROUGH OF ROMFORD.

FORD VAN.

TENDERS are invited for the SUPPLY of one FORD SEW. VAN.

Full particulars and Tender Forms may be obtained from the Borough Engineer and Surveyor, and completed forms must be sent to the TOWN CLERK, Town Hall, Romford, by MONDAY, 25th January.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

PRIVATE STREET WORKS.

WESTBOURNE AVENUE (PART), EMSWORTH.

FIXED-PRICE TENDERS are invited for the EXCAVATION, TO FORMATION LEVEL, the PROVISION AND LAYING OF HARDWARE or 6in LEAN CONCRETE as Base to 690 sq. yd. of CARRIAGEWAY SURFACING, the PROVISION AND LAYING OF 230 lin. yd. of KERB, the CONSTRUCTION OF 500 sq. yd. of FLEXIBLE FOOTWAY, 190 sq. yd. of VERGES, 70 lin. yd. or 9in dia. SURFACE WATER SEWER, 95 lin. yd. of 9in dia. S.G.W. Soil Sewer House Connections, and ancillary works.

Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom the Specifications, Bills of Quantities and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered to the CLERK OF THE COUNCIL, Town Hall, Havant, not later than 12 Noon on WEDNESDAY, 10th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

PRIVATE STREET WORKS.

BOSMERE ROAD (PART), HAYLING ISLAND.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION OF A SOIL SEWER, comprising 260 lin. yd. of 9in. dia. and 104 lin. yd. of 6in. dia. SPUN-IRON PIPE, PRECAST CONCRETE MANHOLES, 190 lin. yd. of 4in. dia. S.G.W. PIPE for House Connections, and ancillary works.

Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom the Specifications, Bills of Quantities and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered to the CLERK OF THE COUNCIL, Town Hall, Havant, not later than 12 Noon on WEDNESDAY, 10th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

SUNBURY - ON - THAMES URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS ACT, 1892.

ASH ROAD, SHEPPERTON.

TENDERS are invited for MAKING-UP the ABOVE-MENTIONED PRIVATE STREET with Hot Rolled Gravel Asphalt Carriageway, Artificial Stone Paving Footpaths, Concrete Kerbs and Channels, Concrete Surface Water Drainage, and ancillary works.

Drawings may be inspected at the Offices of the Engineer and Surveyor, from whom Tender documents may be obtained.

Tenders must be returned to the undersigned, in plain sealed envelopes, not later than 12 Noon on MONDAY, 1st February, 1960.

T. I. WATTS,
Clerk of the Council.
Council Offices,
Sunbury-on-Thames,
Middlesex.
14th January, 1960.

CONTRACTS

DURHAM COUNTY COUNCIL.

TENDERS are invited for the SUPPLY and DELIVERY to Castle Eden Bridge of 25 PRESTRESSED CONCRETE BEAMS, each 42 lin. ft., to a prepared design.

Form and Conditions of Tender, Specification and Drawings may be obtained from the County Surveyor, Aykley Heads, Durham.

Tenders, in plain sealed envelopes endorsed "Pre-stressed Concrete Beams," are to be delivered to the undersigned not later than Noon on FRIDAY, 29th January, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. K. HOPE,
Clerk of the County Council.
Shire Hall,
Durham,
7th January, 1960.

BOROUGH OF STAMFORD.

ANNUAL CONTRACTS.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS and/or EXECUTION OF WORK for the period ending 31st March, 1961:

- (a) Tarrad Slag and/or Granite; Bituminous Macadam.
- (b) Clean Granite and Slag Chippings.
- (c) Gravel and Sand.
- (d) Pitching Stone.
- (e) Concrete Kerb and Edging.
- (f) Dressed Granite Edged Kerb.
- (g) Concrete Flags.
- (h) Sawn Natural Stone Flags.
- (i) Surface Dressing.
- (j) Petroleum Spirit.

Forms of Tender and Conditions of Contract may be obtained from the Borough Surveyor and Engineer, Town Hall, Stamford.

Tenders, sealed in the envelopes provided, and endorsed "Tender for Item —," but bearing no other mark or name indicating sender, are to be delivered to the undersigned not later than FRIDAY, the 5th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. BEDFORD,
Town Clerk.
Town Hall,
Stamford.

BOROUGH OF SUTTON AND CHEAM.

ROAD MATERIALS AND STORES.

The BOROUGH COUNCIL invites TENDERS for the SUPPLY of the FOLLOWING MATERIALS and STORES for the year commencing 1st April, 1960, viz.:

- (a) Tarrad Slag and/or Granite; Bituminous Macadam.
- (b) Clean Granite and Slag Chippings.
- (c) Gravel and Sand.
- (d) Pitching Stone.
- (e) Concrete Kerb and Edging.
- (f) Dressed Granite Edged Kerb.
- (g) Concrete Flags.
- (h) Sawn Natural Stone Flags.
- (i) Surface Dressing.
- (j) Petroleum Spirit.

Forms of Tender and Conditions of Contract may be obtained from the Borough Surveyor and Engineer, Town Hall, Sutton.

Tenders, sealed in the envelopes provided, and endorsed "Tender for Item —," but bearing no other mark or name indicating sender, are to be delivered to the undersigned not later than FRIDAY, the 5th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. PRIESTLEY,
Town Clerk.
Municipal Offices,
Sutton, Surrey.

BOROUGH OF WIDNES.

The CORPORATION invite TENDERS for the SUPPLY of the UNDERMENTIONED MATERIALS required in the Highways Department during the 12 months ending 31st March, 1961:

- (1) Portland Cement.
- (2) Broken Stone and Chippings.
- (3) Tar and Bitumen (Spraying Grades).
- (4) Castings.
- (5) Concrete Kerbs and Flags.
- (6) Tar and Bituminous Macadam.
- (7) Electrical Equipment.
- (8) Electric Lamps.
- (9) Gas Fittings and Mantles.

Forms of Tender, Specification, and envelopes in which the Tenders must be submitted, may be obtained from F. A. J. KNIGHT, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Widnes.

Tenders, in envelopes provided, to be forwarded to reach the undersigned not later than 9 a.m. on THURSDAY, 11th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FRANK HOWARTH,
Town Clerk.
Town Hall,
Widnes,
January, 1960.

BOROUGH OF CHELMSFORD.

ANNUAL TENDERS.

TENDERS are invited for SUPPLY of the UNDERMENTIONED MATERIALS and HIRE OF PLANT for the year ending 31st March, 1961:

- (i) Precast Concrete Flags and Kerbs.
- (ii) Bitumen Macadam, Tarrad Macadam and Fine Cold Asphalt.
- (iii) Scavenging Brooms and Brooms for Lewin Road Sweeper.
- (iv) Gravel and Sand.
- (v) Motor Fuel.
- (vi) Ready Mixed Concrete.
- (vii) Precast Concrete Chippings.
- (viii) Supply and Soreading of Tar.
- (ix) Hire of Mechanical Plant.

Forms of Tender, Specification, and Conditions of Tender may be obtained on application to the Borough Engineer and Surveyor.

Completed Tenders are to be delivered in plain sealed envelopes endorsed "Annual Tenders" to the undersigned not later than Noon on FRIDAY, 5th February, 1960.

B. A. FRANCIS,
Town Clerk.
Municipal Offices,
Chelmsford,
January, 1960.

CONTRACTS

BOROUGH OF OLDBURY.

ERECTION OF LABORATORY BLOCK AT OLDBURY GRAMMAR SCHOOL.

TENDERS are invited, on a FIXED-PRICE BASIS, for the ERECTION of a TWO-STORY LABORATORY BLOCK at OLDBURY GRAMMAR SCHOOL, MOAT ROAD, Oldbury.

Applications from contractors wishing to Tender should reach the Borough Engineer and Surveyor at Municipal Bank Chambers, Birmingham Street, Oldbury, not later than the 22nd January, 1960, accompanied by a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender which is not withdrawn, or upon return of all documents, not later than the closing date for the receipt of Tenders.

Bills of Quantities and Forms of Tender will be issued shortly afterwards, and sealed Tenders in the envelope provided and bearing no mark indicating the sender, must be delivered to the undersigned not later than 12 Noon on TUESDAY, the 16th of February, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

KENNETH PEARCE,
Town Clerk.
Municipal Buildings,
Oldbury,
January, 1960.

BOROUGH OF TOTTENHAM.

WEST ROAD AND HEYBOURNE DITCH FLOOD RELIEF SCHEME.

TENDERS are invited for the CARRYING OUT of the ABOVE SURFACE WATER DRAINAGE SCHEME, which comprises the Laying of Main Sewers in Roads, Open Spaces and under British Railways Main Cambridge Line, all in the Northern Part of the Borough.

The Work includes the Laying of over 1,600 lin. yd. of Sewers, ranging in size from 9in. to 57in. dia., together with Standard and Special Manholes, 8 lin. yd. of in-situ Culvert and other ancillary works.

Plans may be inspected from Monday to Friday, between 9 a.m. and 5 p.m., at the Borough Engineer's Department, Town Hall, N.15, from whom Contract documents may be obtained on payment of £2 (returnable on receipt of a bona-fide Tender).

Closing date for receipt of Tenders is 12 Noon on MONDAY, 15th February, 1960.

M. LINDSAY TAYLOR, L.L.B.,
Town Clerk.
Town Hall,
Tottenham, N.15.

BOROUGH OF ENFIELD.

ANNUAL CONTRACTS FOR THE SUPPLY OF MATERIALS, ETC.

The CORPORATION invites TENDERS for the SUPPLY of the FOLLOWING ITEMS for the year ending 31st March, 1961:

- (a) Tarrad Macadam (Slag or Granite Aggregates).
- (b) Cold Asphalt, Asphalt Macadam and Bituminous Tack Coat.
- (c) Red Granite Chippings.
- (d) Shingle.
- (e) Pit Sand.
- (f) Tools, etc.
- (g) Concrete Aggregate and Washed Sand.
- (h) Cement.
- (i) Brooms and Brushes.
- (j) Precast Concrete Flags.
- (k) Paint and Painters' Sundries.
- (l) Paint and Distemper Brushes.
- (m) Bitumen—Surface Spraying.
- (n) Natural Stone Kerb.

Applications for Specifications and Forms of Tender should be made to the Borough Engineer, 7 Little Port Gardens, Enfield.

Tenders must reach the undersigned on or before the 8th FEBRUARY, 1960, and no Tender will be received except in a plain sealed envelope which must not bear any name or mark indicating the sender.

The Corporation does not bind itself to accept the lowest or any Tender.

CYRIL E. C. R. PLATTEN,
Town Clerk.
Public Offices,
Enfield,
1st January, 1960.

HINDLEY URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

DARBY LANE.

FIXED-PRICE TENDERS are invited for the WORK of MAKING-UP the ABOVE PRIVATE STREET, involving Kerb and Channel Work, Construction of Foundations to Carriageway, Carpeting, Footpath Work and Surface Water Gullies and Connections.

Form of Tender and other documents may be obtained from the Engineer and Surveyor on payment of a deposit of £2 2s., which will be returned after the receipt of a bona-fide Tender within the prescribed time.

Tenders, in plain sealed envelopes endorsed "Private Street Works, Darby Lane," to be delivered to the undersigned not later than 10 a.m. on FRIDAY, 29th January, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. HICKSON,
Clerk of the Council.
Town Hall,
Hindley,
January, 1960.

STAINES URBAN DISTRICT COUNCIL.

ROAD WORKS ANNUAL CONTRACT, 1960-61.

TENDERS are invited for the EXECUTION OF WORKS during the year commencing 1st April, 1960.

A Schedule covering the Following Items of General Maintenance and Minor Improvement Works is required to be priced and cover work throughout the Urban District:—

Take Up and Re-lay Kerb and Paving; Provide and Lay New Kerb and Paving; Footway Surfacing; Carriageway Surfacing; the Construction of Connections to the Main Sewer; and Construction of Carriage Crossings.

Copies of the Schedule, Form of Tender and Specification may be obtained from, and Conditions of Contract inspected at, the offices of the Engineer and Surveyor, "Shortwood House," 240 London Road, Staines, on receipt of a deposit of £2 2s., which will be returned on the receipt of a bona-fide Tender not subsequently withdrawn.

Completed Tenders must be returned, in the envelope provided, to the undersigned not later than 5 p.m. on THURSDAY, the 4th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

F. ENTWISTLE,
Clerk of the Council.
"Elmleigh,"
73 High Street,
Staines,
Middlesex.

CONTRACTS

BOROUGH OF KEIGHLEY.

BOROUGH ENGINEER'S DEPARTMENT.

The CORPORATION invite TENDERS for the SUPPLY of the FOLLOWING MATERIALS during the year ending 31st March, 1961:—

- (1) Pitch and Creosote Oil.
- (2) Ironmongery.
- (3) Ironwork.
- (4) Glazed Ware Pipes.
- (5) Portland Cement.
- (6) Granite Chippings and Dry and Bituminous Granite.
- (7) Dry Limestone.
- (8) Turred Limestone.
- (9) Bricks.

Forms of Tender may be obtained from the undersigned. Tenders to be delivered at the Town Clerk's Office, Town Hall, Keighley, not later than 10 a.m. on MONDAY, the 1st February, 1960.

R. COURTENAY GIBSON,
A.M.I.C.E., M.I.Mun.E.,
Borough Engineer and Surveyor.

College Street,
Keighley.

BOROUGH OF KEIGHLEY.

LOW BANK LANE HOUSING ESTATE.

TENDERS are invited for the CONSTRUCTION of ROADS AND SEWERS in connection with the ABOVE HOUSING ESTATE of approx. 80 houses. Drawings and General Conditions of Contract may be seen at the Borough Engineer's Office, College Street, Keighley, during normal office hours.

The Specification and Bill of Quantities, which must be returned fully priced with the Form of Tender, will be forwarded on application. Sealed Tenders, on the official forms and in the envelope provided for the purpose, endorsed "Roads and Sewers—Low Bank Lane Housing Estate," are to be delivered to the undersigned not later than 10 a.m. on MONDAY, 15th February, 1960.

H. W. SMITH,
Town Clerk.

Town Hall,
Keighley.

BOROUGH OF NEWBURY.

ANNUAL TENDERS.

The CORPORATION invite TENDERS for the SUPPLY of the UNDERMENTIONED MATERIALS and SERVICES for the 12 months commencing 1st April, 1960:—

- (1) Tarmacadam.
- (2) Shingle for Tarring and Concrete Ballast.
- (3) Cleaning Windows of Public Buildings.
- (4) Lorry Hire.
- (5) Coke and Coal.

Further particulars and Forms of Tender can be obtained from the Borough Surveyor, and applicants must state the particular form or forms they require. Tenders, in plain sealed envelopes, endorsed "Tender for —," must be delivered to the undersigned not later than TUESDAY, 2nd February, 1960.

LESLIE SOUTHERN,
Town Clerk.

Municipal Buildings,
Newbury, Berks.

BOROUGH OF NEWBURY.

SEWAGE EFFLUENT PUMPING STATION.

TENDERS are invited for the SUPPLY and INSTALLATION of Three Electrically driven Vertical Spindle Suspended Axial Flow PROPELLER PUMPS, each capable of dealing with 2,014 gallons per minute. Specification, Drawings and Forms of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Newbury, at whose Office the Conditions of Contract may be inspected.

Tenders, endorsed "Sewage Effluent P.S." to be received by the undersigned not later than SATURDAY, 6th February, 1960. The Corporation does not bind itself to accept the lowest or any Tender.

LESLIE SOUTHERN,
Town Clerk.

BOROUGH OF MIDDLETON.

PRIVATE STREET WORKS.

HILL STREET, VINCENT STREET,
BAMFORD AVENUE, SMITHIES AVENUE.

TENDERS are invited for the MAKING-UP of Hill Street, Vincent Street, Bamford Avenue and Smithies Avenue, involving the Construction of 2,100 sq. yd. of Carriageway, 1,400 sq. yd. of Footways, and ancillary works.

Plans may be inspected during normal office hours, and copies of the Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the Borough Engineer and Surveyor, Town Hall, Middleton, upon deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Private Street Works," must be delivered to the undersigned not later than Noon on SATURDAY, 30th January, 1960. The Council does not bind itself to accept the lowest or any Tender.

F. JOHNSTON,
Town Clerk.

Town Hall,
Middleton,
Manchester.

6th January, 1960.

URBAN DISTRICT COUNCIL OF NORTHWICH.

TENDERS FOR MATERIALS.

TENDERS are invited for the SUPPLY and DELIVERY of the UNDERMENTIONED MATERIALS during the year ending 31st March, 1961:—

- Tarmacadam.
- Bitumen Macadam.
- Concrete Flags.
- Concrete Kerbs.
- Crushed Dry Slag.
- Granite Chippings.
- Crushed Gravel.
- Grit Sand.
- Wetmix.

And for the Purchase of Scrap Metal. Specifications and Forms of Tender may be obtained on application to the Engineer and Surveyor, The Council House, Church Road, Northwich.

Tenders, in plain sealed envelopes, endorsed "Tender for Materials," should be delivered to the undersigned not later than 10 a.m. on SATURDAY, 30th January, 1960.

The Council reserve the right to accept part of a Tender, and do not bind themselves to accept the lowest or any Tender.

H. D. HOCKING,
Clerk of the Council.

The Council House,
Northwich.

CONTRACTS

GLAMORGAN COUNTY COUNCIL.

HIGHWAYS ACT, 1959.

TO PUBLIC WORKS CONTRACTORS.

The Glamorgan County Council invite SEPARATE TENDERS for the MAKING-UP of the FOLLOWING PRIVATE STREETS:

- (1) Oakdale Road, Penrhilwfer, the principal works comprising: Carriageway, 650 super. yd.; Footpaths, 280 super. yd.; Kerbing, 180 lin. yd.; and incidental works.
- (2) Glenavon Terrace, Gllfach Goch, the principal works comprising: Carriageway, 1,500 super. yd.; Footpath, 140 super. yd.; Kerbing, 340 lin. yd.; and incidental works.

Specifications, Bills of Quantities and Forms of Tender can be obtained from the County Surveyor, County Hall, Cardiff, on payment of a deposit of £3 in respect of each Tender document, which will be returned (subject to the Conditions of the Tender) on receipt of a bona-fide Tender and the return of all the documents supplied. General Conditions of Contract and Drawings may be seen at the Offices of the County Surveyor during normal working hours.

Contractors will be required to pay the recognised rates of wages and to observe the recognised hours of labour. Sealed Tenders, made out on the prescribed form and accompanied by the priced Bill of Quantities, are to be delivered at the Council Offices, County Hall, Cardiff, by 10.15 a.m. on the 15th FEBRUARY, 1960, addressed to the Clerk of the County Council and marked on the outside "Tenders for Private Street Works."

The Council will not necessarily accept the lowest or any Tender.

RICHARD JOHN,
Clerk of the County Council.

Glamorgan County Hall,
Cardiff.

14th January, 1960.

COUNTY BOROUGH OF HUDDERSFIELD.

WATERWORKS DEPARTMENT.

TENDERS are invited for the COVERING of CIRCULAR SERVICE RESERVOIRS at LADYHOUSE LANE, NEWSOME, Huddersfield, and CLOUGH HEAD, LONGWOOD, Huddersfield, with SINGLE-SPAN LIGHT ALLOY (or similar) ROOFS.

The successful tenderer will be required to execute Contracts, the draft of which may be inspected at the Town Clerk's Office between 10 a.m. and 4 p.m. The General Conditions may be seen, and Plans, Forms of Tender and Specifications obtained from the Waterworks Engineer, 24 Ramden Street, Huddersfield, deposit Two Guineas (returnable on receipt of a Tender not subsequently withdrawn).

Sealed Tenders, endorsed "Tender for Covering Ladyhouse Service Reservoir" and "Tender for Covering Clough Head, Longwood, Service Reservoir," signed in the handwriting of the tenderer or his agent, should reach the undersigned not later than 10 a.m. on 15th FEBRUARY, 1960.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield.

COUNTY BOROUGH OF CROYDON.

NEW HOSTEL FOR 60 OLD PEOPLE.

Contractors wishing to TENDER for BUILDING a NEW HOSTEL on ASHBURTON HOUSING ESTATE are invited to apply to the Borough Engineer, Town Hall, Croydon, for the Tender Form and Bills of Quantities.

Closing date for Tenders: 12 Noon on 17th FEBRUARY, 1960.

E. TAERNER,
Town Clerk.

METROPOLITAN BOROUGH OF CAMEERWELL.

ASPHALT PAVING WORKS.

TENDERS are invited for the FOLLOWING to be laid on Existing Foundations:

- (a) Mastic Asphalt with Rock Non-skid Finish: Old Kent Road—1,550 sq. yd. approx. East Dulwich Grove—1,552 sq. yd. approx.
- (b) Two Course Hot Rolled Asphalt (B.S.S.594:1958): Half Moon Lane—2,000 sq. yd. approx.

Contract documents may be obtained from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, Camberwell, S.E.5.

Closing date: 15th February, 1960.

BOROUGH OF HEMEL HEMPSTEAD.

ANNUAL CONTRACTS.

TENDERS are invited for the SUPPLY of MATERIALS LISTED BELOW during the fiscal year 1960-61.

The Specifications and Forms of Tender may be obtained from A. H. TURNER, A.M.I.C.E., Borough Engineer, High Street, Hemel Hempstead, Herts.

Each of the following groups of materials will be the subject of a separate contract:—

- (1) Heavy Castings—Manhole Covers, Gullies, etc.
- (2) Light Castings—Hydrant Covers, Valve Covers, etc.
- (3) Stopcocks and Ferrules.
- (4) Cast-Iron Pipes and Specials.
- (5) Sluice Valves.
- (6) Copper Tubes and Fittings.
- (7) Paving Slabs and Kerbs.
- (8) Drainage, Kerbing, Footpath and other Roadwork.
- (9) Asphaltic Bitumen Road Emulsion for Cold Application.
- (10) Surface Dressing of Roads, Footpaths and Verges.
- (11) Granite Chippings and Granite Dust.
- (12) Tarmacadam, Bitumen and Cold Fine Asphalt.
- (13) Sand, Ballast, Shingle, Grit and Horgin.
- (14) Roadman's Tools.
- (15) Tyres.
- (16) Stationery.
- (17) Gas Mantles.
- (18) Gas Lanterns (Public Lighting).
- (19) Repairs to Time Switches.
- (20) Cleaning Materials.
- (21) Electric Lamps.
- (22) Dustbins and Refuse Skips.
- (23) Protective Clothing.
- (24) Building Materials.
- (25) Plastic Road Marking Lines.
- (26) Excavating for and Laying Water Mains, etc.
- (27) Motor Fuels.
- (28) Baling Wire.
- (29) Weedkillers.
- (30) Concrete Pipes, Manhole Parts, Gully Pots, etc.
- (31) Glazed Stoneware Pipes and Fittings.
- (32) Ready Mixed Concrete.
- (33) Ready Mixed Mortar for Paving.

Tenders, in sealed envelopes, endorsed with the name of the materials to be supplied, and bearing no name or indication of the sender, must be delivered to me not later than Noon on the 1st FEBRUARY, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

Town Hall,
Hemel Hempstead, Herts.
1st January, 1960.

C. W. G. T. KIRK,
Town Clerk.

CONTRACTS

COUNTY BOROUGH OF SOUTHAMPTON.

SHIRLEY WARREN SURFACE WATER CULVERT.

The COUNCIL invites TENDERS for the CONSTRUCTION of approx. 230yd. of 48in. dia. CULVERT in ARMCO CORRUGATED STEEL PIPES on a site off WARREN AVENUE, SHIRLEY. Interested contractors should apply for documents to the BOROUGH ENGINEER AND SURVEYOR, Civic Centre, Southampton, before 25th JANUARY, 1960.

BOROUGH OF DAGENHAM.

DAGENHAM COUNTY HIGH SCHOOL.

TENDERS are invited for the NECESSARY ALTERATIONS AND EXTENSIONS to the ABOVE SCHOOL to provide One Additional Science Laboratory and Demonstration Room.

Drawings and General Conditions of Contract may be inspected during normal office hours. Forms of Tender and Bills of Quantities may be obtained from the Borough Surveyor on payment of £2 2s., refundable on receipt of a bona-fide Tender.

Closing date for receipt of tenders: Noon, FRIDAY, 5th February, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

BOROUGH OF LOUGHBOROUGH.

ROAD MATERIALS.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS required during the year ending 31st March, 1961:

- (a) Concrete Flags and Kerbs.
- (b) Bituminous Macadam, etc.
- (c) Granite.
- (d) Portland Cement.

Forms of Tender for all or any of the above may be obtained on application to the undersigned and must be delivered in plain sealed envelope to ARTHUR USHER, Town Clerk, Southfields, 1 Loughborough, not later than 12 Noon on FRIDAY, 5th February, 1960.

JOHN S. BATES, A.M.I.C.E., M.I.Mun.E.,
A.M.T.P.I.,
Borough Surveyor.

Southfields,
Loughborough.
8th January, 1960.

BOROUGH OF SHREWSBURY.

ANNUAL TENDERS.

TENDERS are invited for the SUPPLY of the FOLLOWING for the year ending 31st March, 1961:—

- | Ref. | Description |
|------|--|
| (1) | Stoneware Pipes and Fittings. |
| (2) | Bricks. |
| (3) | Cement. |
| (4) | Dustbins. |
| (5) | Manhole Covers, Gully Grates, etc. |
| (6) | Left Chestnut Pale Fencing and Oak Posts. |
| (7) | Sanitary Ware and Fittings. |
| (8) | Building Sand. |
| (9) | Concrete Aggregates. |
| (10) | Concrete Kerbs and Flags. |
| (11) | Asbestos-Cement Rainwater and Soil Pipes and Fittings. |
| (12) | Concrete Road Gullies. |
| (13) | Hardcore Chippings and Gritting Gravel. |
| (14) | Tarmacadam, Bitumen Macadam and Coured Chippings. |
| (15) | Oils and Paraffin. |
| (16) | Hand Brooms. |

Particulars and Forms of Tender for items required may be obtained from the Borough Surveyor, Guildhall, Shrewsbury, on receipt of a stamped addressed foolscap envelope.

Tenders, in the envelope provided, without name or mark indicating sender, to be received by the undersigned not later than 10 a.m. on MONDAY, the 22nd February, 1960.

S. R. H. LOXTON,
Town Clerk.

Guildhall,
Shrewsbury.

CITY OF MANCHESTER.

TENDERS invited for EXTENSIONS AND ALTERATIONS to NELSON STREET JUNIOR and INFANTS' SCHOOL, MILES PLATTING. Bills of Quantities from CITY ARCHITECT, P.O. Box 488, Town Hall. Tenders returnable by 3rd FEBRUARY, 1960.

WILLITON RURAL DISTRICT COUNCIL.

CLATWORTHY WATER SUPPLY SCHEME.

CONTRACT NO. 11.

WATER MAIN FROM WILLET TO BILBROOK.

TENDERS are invited for the FOLLOWING CONSTRUCTIONAL WORK: The Supply and Laying of 3,004yd. of Class "C" Asbestos-cement 8in. Water

5,951yd. of Class "C" Asbestos-cement 7in. Water

Main; 1,195yd. of Class "D" Asbestos-cement 7in. Water

Main; 1,327yd. of Class "C" Asbestos-cement 6in. Water

Main; 1,565yd. of Class "C" Asbestos-cement 5in. Water

Main; 493yd. of Class "D" Asbestos-cement 5in. Water

Main; 622yd. of Class "C" Asbestos-cement 4in. Water

Main; 447yd. of Class "C" Asbestos-cement 3in. Water

Main; 177yd. of Class "D" Asbestos-cement 3in. Water

Main; 259yd. of Class "C" Asbestos-cement 6in. Surface

Water Drain;

Sluice Valves, Washouts, Air Valves, Hydrants, etc.;

Ancillary Works.

Drawings and Conditions of Contract will be available for inspection at the Office of the Engineer and Surveyor, MR. S. E. FALCH, A.M.I.Mun.E., Council Offices, Fore Street, Williton, Taunton, Somerset, and the Form of Tender, Specification and Bill of Quantities can be obtained from the Engineer upon payment of a deposit of Three Guineas by cheque, which will be refunded upon the receipt of a bona-fide Tender and the return of all documents.

Tenders must be delivered to the undersigned not later than Noon on MONDAY, 22nd February, 1960. The envelope should bear no name or mark indicating the identity of the sender.

The Council do not bind themselves to accept the lowest or any Tender.

F. P. RISDON,
Clerk.

Council Offices,
Williton, Taunton
8th January, 1960.

CONTRACTS

CAERNARVONSHIRE COUNTY COUNCIL.

TENDERS invited for BULK EXCAVATION for Road Widening, for following approx. quantities: 3,000 cu. yd. near Llanrwst; 400 cu. yd. and 600 cu. yd. at Two Sites on A.5; 2,700 cu. yd. on A.497 near Pwllheli.

Specification and Form of Tender from County Surveyor, on deposit of Two Guineas, returnable on receipt of bona-fide Tender.

Tenders to Clerk of the County Council, by 30th JANUARY.

J. E. OWEN-JONES,
Clerk of the County Council.

County Offices,
Caernarvon.

NORTHUMBERLAND COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.
COUNTY ROADS.

TENDERS are invited for the SUPPLY of the FOLLOWING during the year 1st April, 1960, to 31st March, 1961:

- (1) Dry Macadam.
- (2) Tarrad Macadam and Bitumen Macadam.
- (3) Refined Tar, Cutback Bitumen and Cold Bitumen Emulsion.
- (4) Gravel Chippings and Sand.
- (5) S-adies, Shovel's, Bass Brooms, etc.
- (6) Portland Cement.
- (7) Road Roller Hire.
- (8) Supply and Laying of Plastic White Line Material.
- (9) Lubricating Oils and Greases.
- (10) Adhesion Agents for Surface Dressing.
- (11) Haulage of Roadstone from Harecras Quarry, Alnwick.

Form of Tender, Specification, etc., may be had on application to the County Surveyor, Phoenix House, Queen Street, Newcastle upon Tyne, 1, envelope to be endorsed "Application for Tender Forms."

Tenders, in a plain sealed envelope, addressed to the Clerk of the County Council, County Hall, Newcastle upon Tyne, 1, endorsed "Tender for —" (followed by the subject to which it relates), must be delivered by SATURDAY, 13th February, 1960.

The County Council do not bind themselves to accept the lowest or any Tender.

F. P. HARVEY,
Clerk of the County Council.

BOROUGH OF YEOVIL.

TENDERS are invited for the SUPPLY and DELIVERY of the MATERIALS and the PERFORMANCE of the SERVICES listed below, for a period of 12 months from 1st April, 1960.

- (1) Portland Cement.
- (2) Sand.
- (3) Gravel.
- (4) Granite or Hardstone Chippings.
- (5) Concrete Kerb and Flagging.
- (6) Tarmacadam.
- (7) Bitumen Macadam.
- (8) Cold Asphalt.
- (9) Dustbins.
- (10) Fuel Oil.
- (11) Smith's Work.
- (12) Maintenance of Clocks.
- (13) Coal and Coke.

Forms of Tender and Specifications may be obtained on application to the undersigned, in a plain sealed envelope, addressed to the Town Clerk not later than Noon on SATURDAY, 6th February, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

A. HEAL, M.I.Mun.E.,
Borough Surveyor.

Municipal Offices,
Yeovil.

HEBBURN URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY of the FOLLOWING for a period of 12 Months from the 1st April, 1960.

- (1) Roadstone, Tarmacadam and Granite Chippings.
- (2) Tar and Bituminous Road Spraying Compound.
- (3) Manhole Covers, Gullies, Domestic Hot Water Boilers, etc.
- (4) Concrete Flagging and Kerbing.
- (5) Portland Cement.
- (6) Stoneware Drainpipes.
- (7) Brushes, Shovels, etc.
- (8) Surface Spraying.
- (9) Building Materials.
- (10) Hardware and Sanitary Fittings.
- (11) Lubricating Oils and Grease.
- (12) Coal and Coke.
- (13) Paint.
- (14) Glass.

The Council may give preference to Fixed-price Tenders. Forms of Tender may be obtained from the Engineer and Surveyor.

The Tenders must be delivered to the undersigned not later than Noon on TUESDAY, 9th February, 1960.

No Tender will be accepted if it is not sealed and delivered in the envelope provided for the purpose, endorsed "Tender for —".

The Council do not bind themselves to accept the lowest or any Tender in its entirety.

J. R. PASSEY, LL.B.,
Clerk to the Council.

Council Offices,
Argyle Street,
Hebburn.

TOWCESTER RURAL DISTRICT COUNCIL.

REGIONAL WATER SUPPLY.

CONTRACT NO. 33.

TENDERS are invited for the CONSTRUCTION of approx. 1½ miles of 3in. dia. ASBESTOS-CEMENT MAINS and ancillary Works.

Copies of the Drawings may be seen by intending contractors at the offices of the Consulting Engineers, MESSRS. HOWARD HUMPHREYS AND SONS, Victoria Station House, Victoria Street, Westminster, S.W.1, or at the Council Offices, Town Hall, Towcester. No:thants, on and from Friday, the 15th January, 1960, between the hours of 10 a.m. and 4 p.m. Copies of the Contract documents may be obtained from the Consulting Engineers upon payment of a deposit of Three Guineas by cheque, made payable to the Towcester Rural District Council, which deposit, after the Council have reached a decision, will be returned to each contractor who has submitted a bona-fide Tender which has not subsequently been withdrawn.

Tenders are to be on the official form and are to be delivered to the undersigned in sealed envelopes endorsed "Tender for Regional Water Supply—Contract No. 33," with bearing no name or other mark indicating the sender, not later than Noon on FRIDAY, the 5th February, 1960. The Council does not undertake to accept the lowest or any Tender.

F. J. HUBBERT,
Clerk of the Council.

Town Hall,
Towcester,
Northants.

CONTRACTS

METROPOLITAN BOROUGH OF SHOREDITCH.

ANNUAL CONTRACTS, 1960-61.

- (1) Asphalt Paving Works.
 - (2) Manufactured Stone Paving Slabs.
 - (3) Ballast, Shingle and Sand.
 - (4) Portland Cement and Lime.
 - (5) Removal of Surplus Earth, etc., to Shoot.
 - (6) Sale of Old Broken Paving.
- Tender Forms for Items (1)-(6) may be obtained from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, Old Street, E.C.1.
- (7) Brooms and Brushes.
 - (8) Uniform and other Clothing and Footwear.
 - (9) Soap, Washing Materials, etc.

Tender Forms for Items (7)-(9) may be obtained from the CLEANING AND TRANSPORT SUPERINTENDENT, 287 Kingsland Road, E.8.

Closing date for all Tenders, 5th FEBRUARY, 1960.

WEST BROMWICH BOROUGH COUNCIL.

RECONSTRUCTION OF SWAN BRIDGE (A.4035).

TENDERS are invited for the RECONSTRUCTION and WIDENING OF SWAN BRIDGE, West Bromwich, OVER the WEDNESBURY OLD CANAL, and the LAYING of a 21in. dia. SEWER UNDER the CANAL. Only Tenders from contractors experienced in this type of work will be considered.

Application for copies of the Form of Tender, Conditions of Contract, Specification and Bill of Quantities should be made to the Council's Consulting Engineers, MESSRS. L. G. MOUCHEL AND PARTNERS, 38 Victoria Street, London, S.W.1, before 3rd February, 1960, enclosing a cheque for a deposit of Five Guineas, made payable to Messrs. L. G. Mouchel and Partners, which will be returned to unsuccessful tenderers as soon as a tender is accepted and to the successful tenderer when the contract is signed.

Drawings may be inspected by appointment at the offices of the undersigned or the Consulting Engineers.

Tenders, in envelopes which will be provided, endorsed "Tender for Reconstruction of Swan Bridge," should be addressed to the undersigned to reach him not later than 10 a.m. on THURSDAY, 3rd March, 1960.

The Council does not bind itself to accept the lowest or any Tender.

(Signed) W. H. GREENWOOD,
Borough Engineer.

Town Hall,
West Bromwich.

BOROUGH OF NEWCASTLE-UNDER-LYME.

ANNUAL CONTRACTS.

TENDERS are invited for the FOLLOWING MATERIALS for the year ending 31st March, 1961:

- (1) Precast Concrete Flags.
- (2) Concrete Kerb and Channel.
- (3) Granite and Limestone Chippings and Broken Limestone.
- (4) Tarrad and Bituminous Macadam and Cold Asphalt.
- (5) Washed and Crushed Gravel.
- (6) Refined Tar and Hot Compounds.
- (7) British Standard Salt Glazeware Pipes, Fittings and Street Gullies.
- (8) Castings.

Application for Forms of Tender must be made to the Borough Surveyor, Lancaster Building, Newcastle, Staffs.

Tenders (in duplicate) must be delivered to the Town Clerk, District Bank House, Newcastle, Staffs., in plain sealed envelopes endorsed "Annual Tender" (and stating the material for which the Tender is being submitted), not later than 12 Noon on TUESDAY, 2nd February, 1960.

Applicants for particulars must specifically state the item number in the above list for which they wish to enter.

C. J. MORTON,
Town Clerk.

BOROUGH OF SUTTON AND CHEAM.

CONSTRUCTION OF CHEAM ROAD CAR PARK EXTENSION—CHEAM ROAD, SUTTON.

The Corporation invites TENDERS from experienced road construction contractors for the ABOVE WORKS, comprising EXCAVATION, GRADING, BITUMEN MACADAM, KERBING, CHANNEL DRAINAGE and ancillary Works over an area of approx. 0.2 acres.

Conditions of Contract and Drawings may be inspected at the offices of the undersigned, in a plain sealed envelope, addressed to the Town Clerk, not later than Noon on SATURDAY, 6th February, 1960. Form of Tender may be obtained on payment of a Two Guinea deposit (returnable on submission of a bona-fide Tender) from MR. C. NEEDHAM, M.I.C.E., M.I.Mun.E., A.M.I.Street.E., Municipal Offices, High Street, Sutton Surrey. Cheques should be made payable to the Sutton and Cheam Borough Council.

Tenders on the prescribed form, sealed in the envelope provided, bearing no indication of the name of the sender and endorsed "Cheam Road Car Park Extension," must reach the undersigned by Noon on FRIDAY, 5th February, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

ARTHUR PRIESTLEY,
Town Clerk.

Municipal Offices,
Sutton,
Surrey.

CITY OF CARDIFF.

CORPORATION WATERWORKS.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION OF A PRECAST CONCRETE ROOF TO RHIWBINA SERVICE RESERVOIR, capacity 1½ million gallons. The Work consists of the Fabrication and Erection of approx. 2,400 sq. yd. of Precast Concrete Roof with Supporting Beams and Columns, together with Roof Finishes, etc.

Conditions of Contract, Specifications, Drawings and Form of Tender may be obtained from the Water Engineer and Manager, to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to Cardiff Corporation and crossed "Not Negotiable and Co." The deposit will be refunded on receipt of a bona-fide Tender or return of the Contract documents.

Tenders will be considered unless enclosed in a plain sealed envelope endorsed "Tender for Rhiwbina Precast Roof," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than 5th FEBRUARY, 1960.

The envelope must not bear the name of or any mark indicating the identity of the tenderer.

Completed Bills of Quantities are to be submitted with the Tender, but must be completed in ink, so as to be in the hands of the Water Engineer and Manager within three days after written request following the opening of the tenders.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff,
January, 1960.

CONTRACTS

CAMBRIDGESHIRE COUNTY COUNCIL.

ROADS AND BRIDGES COMMITTEE.

TENDERS FOR ROAD MATERIALS, ETC.

TENDERS are invited for the UNDERMENTIONED, as may be required in the year ending 31st March, 1961:—

- (1) Supply and Lay Coated Granite and Slag.
- (2) Supply and Lay Gravel Asphalt.
- (3) Supply and Lay Plastic White Lines.
- (4) Surface Dressing.
- (5) Fixing only Roadstuds.
- (6) Rechristling Sweeper Brushes.
- (7) Granite and Slag.
- (8) Tarrad Slag.
- (9) Fine Cold Asphalt.
- (10) Gravel Asphalt.
- (11) Ready Mixed Concrete.
- (12) Bitumen Emulsion (Cold).
- (13) Cement.
- (14) Concrete Kerbs, Channels and Path Edging.
- (15) Stoneware Pipes.
- (16) Concrete Tubes.
- (17) Reflecting Roadstuds.
- (18) Gully Grates and Frames.
- (19) Scavenging Brooms.
- (20) Best Mingle (or Common) Bricks.
- (21) Weckdiller for Cuts.
- (22) Sand, Gravel, etc.
- (23) Hire of Lorries, Compressors, Excavators, etc.
- (24) Hire of Road Rollers.
- (25) Cutting Roadside Grass Verges.

Particulars and Forms of Tender can be obtained from the County Surveyor, Shire Hall, Cambridge.

The reference number indicating the forms required must be included in all applications.

Tenders, in the envelope provided, endorsed "Tenders—Roads and Bridges Committee," and sealed, are to be delivered to the Clerk of the County Council, Shire Hall, Cambridge, on or before THURSDAY, 28th January, 1960.

CHARLES PHYTHIAN,
Clerk of the County Council.

COUNTY BOROUGH OF HALIFAX.

TENDERS FOR STORES FOR THE YEAR ENDING 31ST MARCH, 1961.

TENDERS are invited for the SUPPLY of the FOLLOWING MATERIALS:—

- (1) Stone Kerb, Edging and Flags.
- (2) Granite and Limestone Chippings.
- (3) Cement.
- (4) Broken Stone, Sand and Gravel.
- (5) Earthenware Pipes and Gullies.
- (6) Precast Concrete Flags, Kerb and Edging.
- (7) Tarrad and Bituminous Spraying Compounds.
- (8) Tar and Bituminous Spraying Compounds.
- (9) Castings.
- (10) Bricks.
- (11) Fine Cold Asphalt.
- (12) Ready Mixed Concrete.

Forms of Tender may be obtained from the Borough Engineer, Crossley House, Halifax.

Tenders must be delivered to the undersigned by FRIDAY, 5th February, 1960.

RICHARD de Z. HALL,
Town Clerk.

Town Hall,
Halifax.

FELIXSTOWE URBAN DISTRICT COUNCIL.

ANNUAL TENDERS.

TENDERS are invited for the FOLLOWING SUPPLIES and SERVICES for the year ending 31st March, 1961:

- (1) Cement.
- (2) Stoneware Pipes.
- (3) Hire of Motor Lorries.
- (4) Hire of Road Rollers.
- (5) Washed and Graded Pitstone for Surface Dressing.
- (6) Sand.
- (7) Supply, Delivery and Application of Cold Bituminous Emulsion for Surface Dressing.
- (8) Tarmacadam and Fine Cold Asphalt.
- (9) Petrol.

Specifications and Forms of Tender may be obtained from the undersigned.

Tenders, endorsed "Tender for —," as the case may be, and enclosed in a plain sealed envelope bearing no name or mark to indicate the sender, addressed to the Clerk of the Council, Town Hall, Felixstowe, to be delivered not later than THURSDAY, 4th February, 1960.

The Council does not bind itself to accept the lowest or any Tender.

A. HUGH PAVITT,
A.M.I.C.E., M.I.Mun.E.,
Engineer and Surveyor.

Town Hall,
Felixstowe,
7th January, 1960.

WEDNESFIELD URBAN DISTRICT COUNCIL.

RIDGE LANE IMPROVEMENT.

FIXED-PRICE TENDERS are invited for the IMPROVEMENT OF RIDGE LANE.

The Work comprises approx. 420 lin. yd. of Kerbing, 1,060 sq. yd. of Bitumen Macadam Footways, 1,745 sq. yd. of Tarmacadam Carriageways, Five Class "B" Electric Lighting Units and other incidental Works.

Specification, Bills of Quantities and Form of Tender may be obtained from THOS. A. PEACOCK, M.I.Mun.E., Cert.B.I., Engineer and Surveyor, Pennhurst, 29 Bolton Road, Wednesfield, Staffs., where Drawings and Conditions of Contract may be examined upon payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in envelope provided endorsed "Ridge Lane Improvement," should be returned to the undersigned not later than 12 Noon on MONDAY, 18th January, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire Road,
Wednesfield,
Staffs.

WINSFORD URBAN DISTRICT COUNCIL.

TENDERS FOR SUPPLY AND ERECTION OF 22 PREFABRICATED CONCRETE GARAGES, DENE ESTATE AND MEADOW BANK.

The Engineer and Surveyor, Council Offices, Over Hall, Winsford, Cheshire, will supply Plans, Specification and General Conditions, and Forms of Tender, which must be returned by 1st FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

N. BROWNING,
Clerk of the Council.

Council Offices,
Over Hall,
Winsford,
Cheshire,
7th January, 1960.

CONTRACTS

URBAN DISTRICT OF RUISLIP-NORTHWOOD.

REDECORATION OF COUNCIL HOUSES, 1960/61.

Reputable contractors wishing to be included in the Council's selection list of contractors for REDECORATIONS during this year should apply to the Engineer and Surveyor to the Council by the 27th January, 1960, submitting the names of three Authorities from whom references may be obtained.

EDWARD S. SAYWELL, Clerk of the Council.

Council Offices, Northwood, Middx.

LABOUR ONLY, SEWER WORK to LET. Start March. Many month work. Near Brentwood, Essex.—Write Box X.9889, "The Contract Journal."

ESTIMATES prepared by Mr. R. J. CARR. Britain's Free-lance Estimator, are ACCURATE, COMPETITIVE and PROFITABLE. Based on long practical experience. Full technical service available. 42 Coombe Road, New Malden, Surrey Malden SE40.

TWELVE MONTHS' WORK for 30 8-wheel TIPPERS hauling a distance of 50 miles available. Location Scotland.—Write Box X.9955, "The Contract Journal."

For Contracts received too late for classification see page 185

APPOINTMENTS VACANT

LONDON COUNTY COUNCIL.

HOUSING MANAGEMENT DEPARTMENT.

TECHNICAL ASSISTANTS REQUIRED for pensionable positions in works division. Salary up to £895, according to experience and qualifications.—

- (i) Maintenance Surveyors, experienced in maintenance of houses and flats, estimating for repairs, preparation of dilapidation schedules and reports.
- (ii) Bonus Surveyors for measuring and operating incentive scheme for bonus payments on maintenance work, mainly painting and decorating.
- (iii) Surveyors for measuring and operation of incentive scheme for bonus payments for all trades on new construction and large-scale modernisation and conversions.
- (iv) Assistant Surveyors for preparation of schedules of materials from drawings and specifications for ordering purposes.

Apply personally (Room 121, South Block), or telephone WAT. 5000, extension 6902, for further information, or write, giving age, full details of qualifications and experience, and position applied for, to DIRECTOR OF HOUSING (Ref. HM/G/M38), County Hall, S.E.1.

(2605)

COUNTY BOROUGH OF DARLINGTON.

APPOINTMENT OF CLERK OF WORKS—SALARY GRADE A.P.T. II (£765-£880).

APPLICATIONS are invited for a CLERK OF WORKS to control and administer the housing development contracts under the general supervision of a Resident Engineer.

Housing accommodation can be made available for a married man. The appointment is for a period of 12 months, subject to satisfactory service, with possibility of further service thereafter, and will be subject to the Local Government Superannuation Acts and the Council's Conditions of Service.

Applications, stating age, qualifications and experience, with names and addresses of two referees, endorsed "Clerk of Works," should be submitted to me not later than Noon on the 22nd JANUARY, 1960.

C. N. S. NICHOLSON, Town Clerk.

11 Hour-gate, Darlington.

BOROUGH OF ENFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF DISTRICT BUILDING INSPECTOR.

AMENDED ADVERTISEMENT.

APPLICATIONS are invited for the ABOVE APPOINTMENT at a salary in accordance with A.P.T. II of the National Scheme of Conditions of Service (£765-£880 per annum), with the additional appropriate London Weighing. The commencing salary will be fixed at a point within the scale commensurate with qualifications and experience.

Housing accommodation will be provided. Candidates must be experienced in all classes of building work and possess the Building Inspectors' Certificate of the Institution of Municipal Engineers. An "Essential user" car allowance is payable. Saturday mornings are free of duty.

Application forms obtainable from H. D. PEAKE, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., are to be returned to the undersigned by 1st FEBRUARY, 1960.

CYRIL E. C. R. PLATTEN, L.L.B., Town Clerk.

Public Offices, Enfield, Middx.

22nd December, 1959.

CRICKLADE AND WOITTON BASSETT RURAL DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of ENGINEER AND SURVEYING ASSISTANT to the Engineer and Surveyor, MR. J. C. GRINDLEY, A.M.I.C.E., A.M.I.E.S., A.M.I.M.E., A.M.T.P.I., in the "Special" Grade (£785 to £1,070), at a commencing salary according to experience and qualifications.

Preference will be given to applicants who have had experience in housing, sewerage and sewage disposal works.

The appointment is superannuable, subject to one month's notice on either side. National Joint Council Service Conditions, and to the successful candidate passing a medical examination.

Applications, endorsed "Engineering and Surveying Assistant," stating age, qualifications and experience, together with copies of not more than three recent testimonials, should reach the undersigned by the 15th JANUARY, 1960.

W. J. HOSIER, Clerk of the Council.

Council Offices, Manor House, Wootton Bassett, Swindon, Wilts.

APPOINTMENTS VACANT

WEST MIDLANDS GAS BOARD.

CIVIL ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE POST on the staff of the Chief Engineer, located at Edgbaston, Birmingham.

Candidates should have had experience in design and detail of reinforced concrete structures, foundations and/or steel-framed utility structures and in the preparation of Bills of Materials and Specifications for Contract documents.

The salary for the appointment, which is pensionable and subject to medical examination, will be within the range of £946-£1,111 per annum.

Applications, stating age, qualifications and experience, together with the names of two referees, should be addressed to the INDUSTRIAL RELATIONS OFFICER, West Midlands Gas Board, 6 Augustus Road, Edgbaston, Birmingham, 15.

HERTFORDSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of a QUANTITY SURVEYOR in A.P.T. IV (£1,065-£1,220).

Candidates should be suitably qualified and have had experience in dealing with quantities for civil engineering works, particularly road and bridge construction.

Applications should be sent by 20th JANUARY, 1960, to the COUNTY SURVEYOR, County Hall, Hertford, stating age, present salary, and experience, qualifications, and the names of two referees.

BOROUGH OF BUXTON.

APPLICATIONS are invited for the APPOINTMENTS of—

- (a) Clerk of Works and Building Inspector. Candidates must have a thorough knowledge of all branches of the building trade and have had experience in the supervision of work by contract and direct labour. Applicants will be required to carry out the duties of building inspector and must possess the Building Inspector's Certificate of the Institution of Municipal Engineers. Salary, Miscellaneous Grade VI, (£715-£775 per annum). Applications will be considered from persons not possessing the latter qualification but, in the event of appointment, the salary would be Miscellaneous Grade VI (£650-£715 per annum).
- (b) Temporary Clerk of Works. For supervision of the second phase of the sewage disposal works—Ashwood Dale. Candidates should have had extensive experience in a similar capacity or in a responsible position in the building industry.

The salary will be £750 per annum, plus £150 per annum subsistence allowance. It is anticipated that the work will take two years, but the appointment is subject to one month's notice on either side.

Applications, for both appointments, to be made in writing to the undersigned, giving age, training and full details of previous experience, and the names and addresses of two persons to whom reference may be made, not later than MONDAY, 25th January, 1960.

A. C. W. RYLAND, A.M.I.C.E., Borough Engineer.

Town Hall, Buxton.

7th January, 1960.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

NEW TOWN HALL.

APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited for the APPOINTMENT of CLERK OF WORKS in connection with the New Town Hall, the construction of which will commence March, 1960.

The salary for this appointment will be in the A.P.T. Division, Grade III, £880, rising to a maximum of £1,065 per annum.

Intending applicants should apply in the first instance for Forms of Application and further particulars to the City Architect, GEORGE KENYON, Dip.Arch., A.R.I.B.A., Dip.T.P., A.M.T.P.I.

JOHN ATKINSON, Town Clerk.

Town Hall, Newcastle upon Tyne, 1.

30th December, 1959.

CITY OF ROCHESTER.

CLERK OF WORKS—CIVIL ENGINEERING.

APPLICATIONS are invited for the APPOINTMENT of a TEMPORARY CLERK OF WORKS in the City Surveyor's Department to supervise municipal engineering schemes, at a salary of £16 per week.

The work will mainly consist of supervising roads and sewers on housing estates, road improvements schemes, private street works, and drainage schemes.

As the appointment is of a temporary nature, it is anticipated that there will be a continuity of work for a considerable period of time.

Applications, stating age and details of experience, together with the names and addresses of two persons to whom reference may be made, should be delivered to J. A. PEEL, ESQ., A.M.I.C.E., A.M.I.Mun.E., City Surveyor, 66 Maidstone Road, Rochester, not later than Noon on TUESDAY, 26th January, 1960.

PHILIP H. BARTLETT, Town Clerk.

Guildhall, Rochester.

7th January, 1960.

BREDBURY AND ROMILEY URBAN DISTRICT COUNCIL.

RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT of a RESIDENT ENGINEER for the supervision of main sewerage contract, duration nine months. Salary £1,000 p.a., inclusive. Candidate to provide car reimbursement on mileage basis.

Applications, giving age and full details of experience, to be sent to Consulting Engineers, D. ALFOUD AND SONS, 131 Victoria Street, London, S.W.1, by 8th FEBRUARY, 1960.

EAST MIDDLESEX MAIN DRAINAGE.

RAMMEY MARSH SLUDGE DISPOSAL WORKS.

APPOINTMENT OF RESIDENT ENGINEER.

APPLICATIONS are invited from experienced persons for this APPOINTMENT to supervise a contract which will include earthworks, reinforced concrete structures, pipelines, etc. Future contracts on the same site will include installation of mechanical and electrical equipment and buildings. The site is near Enfield Lock, Middlesex.

The salary will be up to £1,500 p.a., dependent upon qualifications and experience. The appointment is to start about the beginning of March, 1960, and is expected to last about two years, and will be terminable by three months' notice on either side.

Applications to J. D. AND D. M. WATSON, M.M.I.C.E., Consulting Engineers, 67 Tufton Street, Westminster, S.W.1.

APPOINTMENTS VACANT

N YASALAND.

WATER DEVELOPMENT ENGINEER.

Qualifications: Candidates (not over 35) must either have a University degree or equivalent recognised by the Institution of Civil Engineers, together with two years' subsequent practical experience; or have passed or be otherwise exempt from parts one and two of the final examinations of the Institution of Civil Engineers and have had not less than five years' practical experience. Experience in design and construction of hydraulic works, hydrology, irrigation and development of underground water supplies is desirable.

Duties: To be responsible for survey, design and preparation of water development schemes.

Salary: £760 per annum. It is essential that applicants have a car. A car allowance will be paid.

Write, giving age and full particulars of experience, to TOWN CLERK, Town Hall, Camerwell, S.E.5.

Closing date: MONDAY, 25th January, 1960.

Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name and age and brief details of qualifications and experience. Quote BCD140/4/02/D.14.

METROPOLITAN BOROUGH OF CAMERWELL.

CLERK OF WORKS.

CLERK OF WORKS REQUIRED in the Housing Department to supervise conversion of properties.

Salary: £760 per annum. It is essential that applicants have a car. A car allowance will be paid.

Write, giving age and full particulars of experience, to TOWN CLERK, Town Hall, Camerwell, S.E.5.

Closing date: MONDAY, 25th January, 1960.

METROPOLITAN BOROUGH OF HOLBORN.

APPOINTMENT OF SEWER FOREMAN.

APPLICATIONS are invited for the ABOVE ESTABLISHED APPOINTMENT within Miscellaneous Grades IV/V (£590-£715, plus London Weighing). Five-day week of 44 hours. N.C.C. conditions of service.

Experience in drainage work, sewer maintenance and reconstruction and control of labour essential.—Applications, with names of three referees, to be addressed to the Town Clerk, Town Hall, High Holborn, W.C.1, before 29th JANUARY, 1960.

METROPOLITAN BOROUGH OF HAMMERSMITH.

CLERK OF WORKS/SURVEYOR, Borough Engineer and Surveyor's Department. £880-£1,065, plus London Weighing.

Duties include preparation of dilapidation schedules; checking improvement grant applications; preparation of estimates for maintenance and estimating of materials for maintenance and improvement works at such buildings; and acting as clerk of works on building sites as required.

Applications, with names and addresses of three referees, to be submitted to the Town Clerk, Town Hall, Hammersmith, W.6.

CITY OF CARDIFF.

CITY SURVEYOR'S DEPARTMENT.

APPOINTMENT OF BUILDING SURVEYING ASSISTANT.

A.P.T. Grade Two (£765-£880 PER ANNUM).

APPLICATIONS are invited for the ABOVE POST of BUILDING SURVEYING ASSISTANT in the building maintenance section of the City Surveyor's Department.

The person appointed will be responsible (under the building maintenance manager) for the maintenance of a variety of other Corporation properties and the control of a district comprising a labour force of approximately 100 men. He should be experienced in building works management, costing and estimating.

The appointment will be subject in all respects to the Scheme of Conditions of Service as approved by the National Joint Council for Local Authorities, the Local Government Superannuation Acts, the passing of a medical examination and termination of appointment by one month's notice on either side.

Applications, in suitably endorsed envelopes, should be received by me not later than the 28th JANUARY, 1960, and should state age, experience and qualifications, and include the names and addresses of three referees.

S. TAPPER-JONES, Town Clerk.

City Hall, Cardiff.

January, 1960.

WINSFORD URBAN DISTRICT COUNCIL.

CHIEF ASSISTANT ENGINEER IN THE ENGINEER AND SURVEYOR'S DEPARTMENT.

Salary A.P.T. IV (£1,065-£1,220).

Casual user allowance for 10-h.p. car. House available. Applicants must be Associate Members of the Institution of Municipal Engineers or Civil Engineers, by examination, with considerable experience in municipal engineering.

Applications, on forms obtainable from the Engineer and Surveyor, Over Hall, Winsford, Cheshire, by First Post on FRIDAY, the 22nd January, 1960.

N. BROWNING, Clerk of the Council.

Council Offices, Over Hall, Winsford, Cheshire.

2nd January, 1960.

URBAN DISTRICT OF MERTON AND MORDEN.

TRENCH REINSTATEMENT INSPECTOR RE-QUIRED, £11 2s. 6d. per week. Competent to supervise works, measure, and maintain records of reinstatement works, preferably having had experience in a highways department. Maintain and use a cycle.—Details, with names and references, to ENGINEER AND SURVEYOR, Merton and Morden U.D.C., Morden Hall, S.W.19.

UPTON-UPON-SEVERN RURAL DISTRICT COUNCIL.

NEWLAND SEWERAGE AND POWICE SEWAGE DISPOSAL WORKS EXTENSIONS.

APPOINTMENT OF RESIDENT ENGINEER.

The Council invite applications from experienced persons for APPOINTMENT as RESIDENT ENGINEER to supervise the construction of the above works under the direction of the Engineer, MESSRS. WILLCOX, RAIKES AND MARSHALL, Birmingham. The contract for the work is due to be completed in November, 1960.

Applications, giving full particulars of experience, age, status salary required, together with the names of three engineers or previous employers to whom reference can be made, should be delivered to the undersigned on or before WEDNESDAY, 20th January, 1960.

E. A. TURNER, Clerk of the Council.

Council Offices, Upton-upon-Severn, Worcester.

5th January, 1960.

APPOINTMENTS VACANT

COVENTRY CORPORATION.

CHIEF ASSISTANT ENGINEER, Grade "A" (£1,200-£1,350). Degree in civil engineering and/or associate membership Inst. C.E. and/or Inst. Mun.E. and considerable experience in civil engineering works essential. Experience central area redevelopment, including road improvements, an advantage. Housing accommodation may be available. Removal expenses loan.—Application forms from CITY ENGINEER, Council House, Coventry, returnable by 27th JANUARY.

BOROUGH OF BEXLEY.

APPOINTMENT OF DEPUTY BOROUGH ENGINEER AND SURVEYOR.

APPLICATIONS are invited for this APPOINTMENT from persons who are members of the Institution of Municipal Engineers or hold an equivalent qualification. Commencing salary £1,655 per annum, rising by three annual increments of £60 and one of £50 to £1,885. A car allowance on the essential user basis (10-h.p. or 1199 c.c.) is also payable.

Particulars and conditions of appointment are obtainable from the Borough Engineer and Surveyor, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications should be returned by 30th JANUARY, 1960. The Council may be prepared to assist in the provision of housing accommodation.

Canvassing will disqualify.

ARTHUR GOLDFINCH, Town Clerk.

MERTON AND MORDEN URBAN DISTRICT COUNCIL.

ROAD WORKS CHARGEHAND REQUIRED for Highways Department. £10 9s. 10d. for 44-hour week, occasional overtime, sick pay scheme and holidays on N.J.C. Conditions; protective clothing and prospect of pensionable employment.—Write, in first instance, ENGINEER AND SURVEYOR, Morden Hall, S.W.19.

TERRESEARCH, LTD., REQUIRE for their permanent staff a **GENERAL FOREMAN** for bored piling and other foundation and reinforced concrete work. Applications are invited from men experienced in this type of work who are prepared to travel anywhere in the U.K. and to reside in the London area.—Apply in writing to TERRESEARCH, LTD., Ruislip Road, Northolt, Greenford, Middlesex.

ASSISTANT ESTIMATOR or ESTIMATOR REQUIRED for firm specialising in hard tennis court and swimming pool construction, etc. Familiarisation period where specialist knowledge insufficient. Permanent position, with scope.—Write, giving experience and age, to RUTHERFORD CONSTRUCTION CO., LTD., Battle, Sussex.

SITE ENGINEERS REQUIRED for road-works and main drainage contracts in Home Counties. Good prospects for keen young men who are competent and experienced in setting-out, etc.—Apply in writing, giving details of training, plus percentage age and salary required, to Box V.9887, "The Contract Journal."

EXPERIENCED ESTIMATOR REQUIRED for civil engineering contracting firm in East Midlands. Turnover approx. £100,000 per annum. Must be able to submit tenders and work on his own initiative. Salary according to qualifications, plus percentage of profits.—Write Box V.9885, "The Contract Journal."

CIVIL ENGINEER—OVERSEAS

ENGINEER REQUIRED for large overseas contract. Applicants should have some experience in the contracting industry and a minimum of five years' site experience. The post will entail responsibility for setting out, measurement and general supervision of a section of the contract under the agent's direction, and offers opportunity for a keen and industrious engineer with a sound technical background.—Apply:

PAULING AND CO., LTD.,
26 Victoria Street, S.W.1.

SETTING-OUT and SITE ENGINEERS REQUIRED for road and tunnel contract in Argyll. Must be quick and accurate.—Full details to Box V.9908, "The Contract Journal."

SITE AGENTS WANTED by medium-size civil engineering and building contractors operating in South-East England. Due to expanding civil engineering department, vacancies occur for energetic Agents experienced in public works generally and capable of detailed control and organisation of small and medium contracts.—Full history and salary to Box V.9905, "The Contract Journal."

A VACANCY exists in T.G. Construction Co., Ltd., for a **FOREMAN PLASTERER** who must have had considerable experience in the building industry; there is opportunity for advancement.—Applicants should apply in writing, stating age, experience, etc., to Personnel Manager, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton, Staffs.

SENIOR ENGINEER REQUIRED by contractor in Ross-shire for a position in their main office, dealing with widespread contracts. Applicants should have experience in estimating, settlements, preparation of claims information, and some structural design ability. This is a permanent position, and housing can be made available.—Write Box V.9907, "The Contract Journal."

QUANTITY SURVEYOR

Well-established Dublin building and engineering contractors have a vacancy for a qualified **QUANTITY SURVEYOR** with good practical experience. This post carries an attractive salary commensurate with qualifications and experience, and gives an opportunity for attaining a managerial position.—Write, giving full details of education and experience, to:

BOX 178, EASON'S ADVERTISING SERVICE,
Dublin.

ESTIMATOR urgently REQUIRED. Ambitious man of wide experience in civil engineering and bulk earthmoving, capable of working successfully on his own initiative. Young company offers salary and commission to man of ability who shows results.—Write, with full details, in strict confidence, to Box V.9945, "The Contract Journal."

ASSISTANT ESTIMATING SURVEYOR REQUIRED by national firm of contractors at their Midlands office. Must be experienced in the preparation of bills of quantities and be able to prepare material schedules for ordering.—Write, giving full particulars of age, experience and salary required, to Box V.9915, "The Contract Journal."

APPOINTMENTS VACANT

EXPERIENCED ESTIMATOR REQUIRED

by civil engineering contractors to operate from head office. Reading area. Permanent position; prospects with pension rights.—Apply in confidence, giving age, details of experience, previous employers, and salary required, to Box V.9838, "The Contract Journal."

CIVIL ENGINEER JUNIORS, experienced in setting-out and concrete control, REQUIRED by extensive building and civil engineering contractors. Permanent posts with excellent prospects.—Write Box V.9896, "The Contract Journal."

CONSULTING Engineers have vacancies for unqualified or partly trained ASSISTANTS for water supply and sewerage work in the West of England. Salary range £400-£700 p.a., depending on age and experience.—Write Box V.9897, "The Contract Journal."

D. T. BULLOCK AND CO., LTD.

Seek to appoint an **ENGINEER/AGENT**. This expanding company require a first-rate man, age range 28/35, preferably qualified, and with a good knowledge of reinforced concrete construction. Applicants should be capable of supervising and settling out medium-size sewage works contracts in the Midlands, and the successful candidate will initially be based on a contract in East Leicestershire commencing early 1960. A good salary will be paid, together with bonus on results. Transport will be provided or allowance in lieu.—Apply, in writing, to:

Managing Director,
D. T. BULLOCK AND CO., LTD.,
Northgate, Aldridge, Staffs.

CONSULTING Engineers urgently REQUIRE

additional staff in London and Dartington, **ENGINEERS and DRAUGHTSMEN** for both reinforced concrete and steelwork.—Full particulars to F. R. BULLEN and PARTNERS, Dacre House, Dean Farrar Street, S.W.1.

YOUNG GRADUATE CIVIL ENGINEERS

REQUIRED by old-established firm based in London, utilities to include contract site work and design, etc. Applicants should have a good knowledge of the industry, and be prepared to take responsibility. There are excellent opportunities for advancement and there is a pension scheme. Good housing available.—Write, giving full details of career, previous employers, and all other personal details, together with salary required.—Write Box V.9894, "The Contract Journal."

CHIEF DRAUGHTSMAN REQUIRED by precast manufacturers producing street lighting, farm and industrial buildings, etc. Good housing available.—Apply, stating age, experience, and salary required, to Technical Director, CONCRETE UTILITIES, LTD., Great Amwell, Ware.

HOUSING DEVELOPMENT MANAGER

MSL have been retained to advise on the appointment of a **HOUSING DEVELOPMENT MANAGER** for a company designing and constructing mass-produced semi- and detached private dwellings for the lower middle class market. A subsidiary company will shortly commence building on its first site in Ayrshire.

The Manager will recruit administrative, sales and construction staff and co-operate with local government department and suppliers in order to control the stages of construction and unit completion in accordance with an agreed programme.

Candidates must have experience as contract manager, area supervisor or quantity surveyor in the mass-produced private building industry. Experience of labour control and administration is essential.

Preferred age 40 to 50 years. Initial salary £1,700 with programme bonus of £10 per unit, rented house if required and car.

Please send brief details in confidence, quoting reference YA.2056, to J. G. Smith. In no circumstances will a candidate's identity be disclosed to our client unless he gives permission after a confidential interview at which he will be given full details of the appointment.

MANAGEMENT SELECTION LIMITED,
212, West Regent Street, Glasgow, C.2.

MARTIN COWLEY, LTD.: SENIOR and JUNIOR SITE ENGINEERS REQUIRED for interesting civil engineering contracts. Preference given to qualified engineers.—Apply stating full details and salary required, to 112 Jermyn Street, S.W.1.

QUANTITY SURVEYORS and WORKER-UP ARE REQUIRED for work at Hunterston Nuclear Generating Station, Ayrshire, in settlement of civil engineering contract. Full details of appointment will be given at interview, which will be arranged in London, Stockport, or site.—Applicants should give full details of age, experience and qualifications, if any, to The Contract Labour Department, SIMON-CARVES, LTD., Cheadle Heath, Stockport, quoting Ref. HS/33.

ASSISTANT REQUIRED to manager of hire department. Previous experience preferred but not essential. Salary according to experience.—Apply in writing to GRAYSTON PLANT AND ENGINEERING CO., LTD., 32 Stewart's Road, S.W.8.

HUMPHREYS, LTD.

AGENTS/GENERAL FOREMEN, holding building or civil engineering qualifications, are asked to submit details for consideration. Contracts in mind are mainly in London or the Home Counties. Superannuation scheme and other amenities available after trial period, plus attractive salaries.—Replies, please, to:

Personnel Manager,
HUMPHREYS, LTD.,
199 Knightsbridge, London, S.W.7.

ESTIMATOR REQUIRED, fully experienced in minor street works, including drainage, foundation and other preparatory and surfacing work in London and the Home Counties.—Apply in confidence to Roads Manager, VAL DE TRAVERS ASPHALTE, LTD., 21 Old Bailey, E.C.4.

CIVIL ENGINEER (Junior) REQUIRED by N. London contractors, for work on site and in head office. Applicants should preferably be qualified and possess up to three years' site experience. This is an excellent opportunity for an enthusiastic young engineer to join rapidly expanding organisation.—Applications should be submitted to Box V.9927, "The Contract Journal."

APPOINTMENTS VACANT

GENERAL FOREMAN REQUIRED by old-

established civil engineering company based in London. Must have personality and initiative and a thorough knowledge of all aspects of the industry, including contract work, design of plant and organisation. Permanent, pensionable employment is offered and applicants should write in the first instance, giving full details of their personal history, previous experience, and the firms for whom they have worked, to Box V.9893, "The Contract Journal."

PILING ENGINEER: Engineer REQUIRED

for supervision of bored piling activities in large civil engineering company. Must be capable of organising site work and office activities. Proved competitive ability in this field is essential, and experience of sheet steel and precast piling will be an advantage. Applicants should be technically qualified, preferably with either a degree or A.M.I.C.E. The position is a permanent one, with staff conditions including a pension fund.—Applicants should apply in confidence, giving full details of age, previous experience, salary required, and quoting Ref. No. PE 32, to Box V.9892, "The Contract Journal."

HUMPHREYS, LTD.

Building and civil engineering contractors, REQUIRE **ASSISTANT ESTIMATORS** for head office and Chester office; **SURVEYORS** for measuring for unit costing and both in London and Home Counties; **PURCHASING ASSISTANTS**, male and female, for London office; **TRAINEE SURVEYORS**, 16-17 (five subjects G.C.E.), for London office. Good salaries and conditions, superannuation scheme, assisted training scheme, and ample opportunities for advancement.—Apply by letter or telephone to:

Personnel Department,
HUMPHREYS, LTD.,
199 Knightsbridge, London, S.W.7.
Telephone: Kensington 3456.

CIVIL ENGINEERING AGENT, qualified, age about 30 years, REQUIRED for a medium/large contract in Essex. Ability to organise fast production and quality control of concrete and an interest in site cost control is necessary. This post could lead to excellent prospects in a developing organisation.—Applications should be submitted to Box V.9928, "The Contract Journal."

GENTLEMAN, experienced in controlling

large-scale industrial painting contracts from the estimating stage through and up to conducting meetings with clients level, REQUIRED to assist the managing director in just such duties. Salary on a generous scale, depending on experience and ability. Superannuation. Age not much later than in the 40's. First instance to the Secretary, THOMAS COTTON, LTD., Moor Lane, Mansfield, Notts.

CUBITTS

SENIOR CIVIL ENGINEER (age 30-35 years) REQUIRED for permanent appointment in London head office, for work on design of permanent and temporary works, cofferdams, reinforced concrete, steelwork, timbering, planning, etc., for major civil engineering contracts. Past experience with contractors on site or in design office an advantage.—Write, stating age, qualifications, experience and salary required, to:

Mr. Todd,
HOLLAND & HAFEN AND CUBITTS
(GREAT BRITAIN), LTD.,
1 Queen Anne's Gate, London, S.W.1.

SPLENDID opportunity for an ambitious

CIVIL ENGINEER interested in estimating. Head office appointment in contractors' estimating department. Applicants preferred with site experience and who are already able to prepare tenders under supervision, etc., of experience, age, salary, to LEHANE, MACKENZIE AND SHAND, LTD., Matlock, Derbyshire.

GENERAL FOREMAN (Building): Applications invited from Senior General Foremen who are at the top of their grade and have handled large building contracts in recent years, using initiative in site administration and practical application of all modern techniques for work in the Midlands area. Carpenter and joiner background preferred. A good salary and expenses and other staff terms will be made to successful applicants.—WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

THE CEMENTATION CO., LTD.

Have vacancies in civil engineering construction in the United Kingdom for **ENGINEER/AGENTS** for contracts from approx. £100,000 to £250,000 value. Applicants, 30-35 years of age, with A.M.I.C.E., must have at least five years in senior positions on major projects or in charge of contracts, with the ability to direct labour, carry out preplanning and execute works to a predetermined programme. These permanent appointments offer good salaries, with bonus and allowances.—Applications will be treated in strict confidence, and should be addressed to:

The Personnel Officer,
THE CEMENTATION CO., LTD.,
20 Albert Embankment, London, S.E.11.

THOMAS FLETCHER AND CO., LTD.,

have vacancies for **ENGINEER/AGENTS**, age 28/40. Preferably qualified but not essential. These are permanent appointments for the right applicants.—Reply, giving full details, to Managing Director, Head Office, Forest Road, Marfield, Notts.

ASSISTANT ESTIMATOR: Manufacturers of chain link fencing steelwork and gates have vacancy for this position. Knowledge and draughtsmanship essential. 5-day week, pension scheme, commencing salary £598 p.a.—Applications in writing to PROVE EROS, LTD., 126 Rickmansworth Road, Watford, Herts.

SITE CASHIERS: Applications invited from experienced men who have been Site Cashiers for at least the past five years and have been and worked for a reputable national contractor, for large jobs in the Midlands area. Top salary and expenses offered to the right men.—WILSON LOVATT AND SONS, LTD., Clarence Street, Wolverhampton.

ASSISTANT to Plant Depot Manager REQUIRED. Must have practical experience in the overhaul of all types of plant. Knowledge of engine, energetic, and control staff. Commencing salary £850 p.a. Pension scheme. Preference applicants living easy reach North London.—Write Box V.9914, "The Contract Journal."

APPOINTMENTS VACANT

EXPERIENCED WORKING FOREMAN
WANTED for civil engineering contracts South of London. Willing to travel. Good pay and prospects for right man with sound knowledge of industry.—Details of experience and present salary to Box V.9890, "The Contract Journal."

CONTRACTS MANAGER REQUIRED by national contractors to control their housing contracts. The appointment will be based at our offices in Middlesex. Applicants must be fully experienced in all aspects of house construction and be able to plan and control their development on several estates simultaneously in an economic and expeditious manner. This is a senior and permanent appointment and a substantial salary will be paid, together with a bonus on results. Pension scheme in operation.—Write, stating full particulars of age, experience, etc., to Box V.9916, "The Contract Journal."

SENIOR GENERAL FOREMAN

REQUIRED for multi-storey reinforced concrete flats in South Wales area. Experience of this class of work essential.—Write in confidence, stating age, experience and salary required, to:

STONE AND CO. (BRISTOL), LTD.,
Redland Road, Bristol, 6.

W. AND C. FRENCH, LTD., urgently require fully experienced **BONUS SURVEYORS** for civil engineering and building contracts. Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex.

CIVIL ENGINEERING ESTIMATOR, age about 50, with wide experience of tendering for all types of civil engineering contracts. REQUIRED by **THE DEMOLITION AND CONSTRUCTION CO., LTD.**, 3 St. James's Square, London, S.W.1. Applicants in writing, should be made to the Chief Engineer at the above address, giving age, qualifications, details of experience, and salary required.

MANAGER REQUIRED by well-known specialist plant hire company for depots in Lancashire and Yorkshire. An excellent opportunity for an experienced man with some mechanical knowledge who can expand existing business. Car provided and pension scheme in operation.—Apply, giving full details of experience, and stating age and present salary to General Manager, Box V.9941, "The Contract Journal."

PLANT DRAUGHTSMAN

REQUIRED by **W. H. ALLEN, SONS AND CO., LTD.**, for works engineer's staff, experienced in the design of industrial buildings, machinery foundations, structural steelwork, etc. Age 25-35. Qualifications should, for preference, include H.N.C. or equivalent.—Applications, in writing, quoting Ref. No. 1601.C. to:

The Personnel Manager,
W. H. ALLEN, SONS AND CO., LTD.,
Bedford.

MARTIN COWLEY, LTD.: Senior Executives REQUIRED initially to act as AREA AGENTS on civil engineering contracts. Preference given to qualified Estimators and successful salesmen with experience with the larger type contractor. Positions offer the opportunity of advancement and interesting career to ambitious Engineers.—Apply, stating full details of past experience, together with an indication of salary required, to 112 Jermyn Street, London, S.W.1.

REQUIRED, one **JUNIOR ENGINEER** to supervise short-duration contracts, mainly piling, in the West of England and South Wales. Should be resident in Bristol and operate from company office in Bristol. Two further **SETTING-OUT ENGINEERS** REQUIRED, to be resident in the first instance on a long contract near Newport, Mon.—Write Box V.9926, "The Contract Journal."

MAJOR petroleum company REQUIRES a **BITUMEN SALES REPRESENTATIVE** for service in U.K. only. Applicants preferably should be in age bracket 30-35 years and have good standard of education; knowledge of bituminous road construction essential. Starting salary commensurate with qualifications and experience. Excellent pension scheme.—Apply, giving full details of age, qualifications and experience, to Box V.9913, "The Contract Journal." Replies can only be sent to those selected for interview.

CHIEF CIVIL ENGINEER

MSL have been retained to advise on the appointment of a **CHIEF CIVIL ENGINEER** for a company wishing to expand its civil engineering department so as to undertake major heavy contracts. The company already employs over 1,000 on large-scale housing and light civil engineering projects.

The Chief Civil Engineer will be responsible for organising and developing the department, and for estimating, pricing and programming major civil engineering contracts in addition to its present activities.

Candidates must be thoroughly experienced in handling heavy projects, particularly roads and bridges, and have a sound knowledge of estimating, planning, programming, cost control and work study. An A.M.I.C.E. qualification is essential, and a degree would be an asset.

Preferred age 35 to 45 years. Initial salary up to £2,000 with pension, life insurance and car.

Please send brief details in confidence, quoting reference YA.2118, to J. C. Smith. In no circumstances will a candidate's identity be disclosed to our client unless he gives permission after a confidential interview at which he will be given full details of the appointment.

MANAGEMENT SELECTION LIMITED,
212, West Regent Street, Glasgow, C.2.

DESIGNER/DRAUGHTSMAN, age 30 to 40, with experience of contractors' plant and its use in the field. Capable of supervising design and/or development. Must have experience of light dumpers and possibly concrete mixing machinery. Good prospects and one for the right applicant with rapidly expanding company. Location: please East Coast of Scotland.—Reply, in strictest confidence, to Managing Director, Box V.9922, "The Contract Journal."

ESTIMATOR WANTED by leading South Wales firm of civil engineering contractors. Good salary, conditions and prospects. Varied and interesting work.—Write Box V.9990, "The Contract Journal," quoting Ref. C.J.

APPOINTMENTS VACANT

SURVEYOR: Applications invited from men, age range 26-45, who have had recent past experience in the successful handling of final accounts for large building contract work, including monthly certificates and variations, etc. Working from Wolverhampton as a base and visiting several jobs.—Applications should give full details of recent record of employment with a similar company, and responsibilities, addressed to Personnel Manager, **WILSON LOWATT AND SONS, LTD.**, Clarence Street, Wolverhampton.

MARTIN COWLEY, LTD.: AGENTS REQUIRED for large civil engineering contracts, preferably qualified Estimators with a minimum of three years' experience in a similar position. Vacancies offer interesting posts with possibility of promotion to suitable applicants.—Apply in writing to 112 Jermyn Street, S.W.1.

LEVERTONS OF WIGAN

THE CATERPILLAR DEALERS, REQUIRE a young, live and enthusiastic **SALES REPRESENTATIVE** to handle the full range of Caterpillar earthmoving equipment in the Lancashire and Cheshire areas. Applicants should be of good education, possess a good general engineering background, and preferably be experienced in this business. Good salary, car provided, non-contributory pension scheme in operation.—Applications, giving full particulars, in the first instance to:

The Director,
LEVERTONS OF WIGAN,
Ashton-in-Makerfield.

CIVIL ENGINEER: Applications invited from young Engineers with about five years' experience in building and civil engineering sites, to work in the Midlands area in the first instance, on large contracts. The posts are progressive and a good salary and terms will be offered to the selected applicants.—Full details of training and experience should be sent to the Personnel Manager, **WILSON LOWATT AND SONS, LTD.**, Clarence Street, Wolverhampton.

ENGINEER REQUIRED for setting-out and site measurement on various contracts in the Home Counties. It is anticipated that suitable applicant would shortly be promoted to Engineer/Agent. Pension scheme. Apply giving full details of experience and salary expected, to **Projects Manager, HIGHWAYS CONSTRUCTION LTD.**, Asphalt House, Palace Street, S.W.1.

TURRIFF CONSTRUCTION CORPORATION

REQUIRE several **SITE ENGINEERS** for contracts in the U.K. Applicants must be thoroughly competent with instruments and capable of accurate measurements and setting out. Progressive position with good salaries. Pension scheme.—Write:

Group Personnel Manager,
TURRIFF CONSTRUCTION CORPORATION, LTD.,
Buddbrook Road, Warwick.

GENERAL FOREMAN, fully experienced in road, drainage and reinforced concrete works, REQUIRED by expanding company of civil engineering contractors for Croxley area. Prospect of permanency for the right man.—Applications, giving full details of experience, previous employers, age, salary required, etc., to Box V.9942, "The Contract Journal."

EXPERIENCED ASPHALT CONTRACTS MANAGER/SUPERVISOR REQUIRED for South Wales. Excellent opportunity and good salary for energetic man: capable of working without supervision and making own decisions. Staff pension and car provided. This situation offers great scope for right applicant.—Write, giving experience, education, age and salary required, to Box V.9936, "The Contract Journal."

YOUNG CIVIL ENGINEER WANTED, preferably with some experience of estimating, to work in London head office of civil engineer's contractors. This position is progressive and can ultimately produce a variety of experience apart from estimating, including the possibility of work overseas.—Write in the first instance, giving details of age, experience, salary required, etc. to Box V.9934 "The Contract Journal."

SIR LINDSAY PARKINSON AND CO., LTD.

Have vacancies at home and abroad for—

(1) **AGENTS**
Experienced men, preferably qualified civil engineers, who have a record of works completed to programme at the right cost.

(2) **CIVIL ENGINEERS**
A.M.I.C.E., with at least seven years' experience with contractors.

(3) **ASSISTANT CIVIL ENGINEERS**
B.Sc. or equivalent, with at least three years' site experience with contractors.
Applicants for (1) and (2) should have considerable experience in at least one of the following fields: (a) Major road and bridge works; (b) marine works; (c) railway works; (d) sewerage and sewage works. First-class conditions, remuneration and prospects for the right men.—All applications will be treated as confidential, and should be made in writing, giving full details of experience and qualifications, to:

Civil Engineering Director,
SIR LINDSAY PARKINSON AND CO., LTD.,
6 Lambeth Road, St. George's Circus, London, S.E.1.

COMMERCIAL VEHICLE SALESMAN:
INDUSTRIAL TRACTOR AND EQUIPMENT SALESMAN: Applications are invited from experienced Salesmen with sound knowledge of the market, for appointment with a large, progressive Ford distributor in Yorkshire. Remuneration will include salary and good commission rates and company vehicle, and the successful applicants will be included in the company's non-contributory superannuation scheme.—Apply, giving full details of experience, etc., to Box V.9987, "The Contract Journal."

CONSULTING Civil Engineers REQUIRE REINFORCED CONCRETE DETAILERS for particularly interesting maritime and/or structural work 5-day week; pension; luncheon vouchers. Salary up to £800, according to experience.—Apply **T. F. BURNS AND PARTNERS**, 25 Victoria Street, London, S.W.1.

GENERAL FOREMAN and SITE ENGINEER REQUIRED immediately for major road and bridge works contract in East Yorkshire. Must be fully experienced in this type of work. Top salaries and good prospects for the right man.—Apply, giving full details of experience, age and availability, to **MARTIN COWLEY, LTD.**, Clay Cross, Derbyshire.

APPOINTMENTS VACANT

PLANT FITTER REQUIRED. Must be experienced in the maintenance and overhaul of all types of building plant.—Apply in writing, giving full details of previous experience and salary, to **GROWING PLANT HIRE**, Bury Street, Ruislip, Middx.

CONTRACTS MANAGER REQUIRED by a rapidly expanding company to take charge of civil engineering contracts, mainly in the Yorkshire area. Applicants, preferably qualified, must be over 36 and have had extensive experience in a similar position. Remuneration by salary according to experience and immediate entry into a first-class pension scheme.—Apply in writing, giving full details, to Box V.9953, "The Contract Journal."

HUMPHREYS, LTD.

CHARGEHAND FOREMEN of proved ability REQUIRED. Attractive salaries positions available to the right men.—Details, please, to:

Personnel Manager,
HUMPHREYS, LTD.,
199 Knightsbridge, London, S.W.7.

GEORGE WIMPEY & CO., LTD. REQUIRE BUILDING GENERAL FOREMEN. Only men with experience on large contracts need apply. Applicants must be willing to travel in the U.K. Good remuneration offered to the right men.—Write, stating age and experience, to the Establishment, 27 Hammersmith Grove, London, W.6. Ref. 6348.

WELL-KNOWN earthmoving and mechanical handling sole-trust manufacturer is seeking a **TECHNICAL SALES REPRESENTATIVE** for County Durham, Northumberland, Cumberland, Westmorland, part of Lancashire and North Yorkshire. Exceptional prospects are offered for suitable applicant, who must have successful selling experience in the area. Full support provided both by head office and two service depots situated in the area.—Full details of past and present employment to Box V.9965, "The Contract Journal."

GREENHAMS REQUIRE for their new ready-mixed concrete depot in Fulham, TWO **SALESMEN.** Experience preferred. Car provided, and pension scheme available.—Apply in writing to Managing Director, **GREENHAM READY MIXED CONCRETE, LTD.**, Nacovia Wharf, Townsend Road, Fulham.

SENIOR AGENTS (Civil Engineering):

Applications are invited from Engineers capable of controlling contracts up to £1m. At least 10 years' experience of heavy civil engineering, including earthmoving, piling, mass and reinforced concrete construction, is essential. Knowledge of prestressing, mix design and advanced construction would be an advantage. Technical qualifications, degree and/or A.M.I.C.E., are equivalent. An immediate vacancy exists for a large contract already secured, and further posts are offered to applicants who prefer to plan their contract from the tender stage. The posts are permanent in an expanding organisation and offer exceptional opportunity for advancement. Salary and allowances in accordance with experience and ability. Pension scheme in operation. Applicants should apply in confidence, giving full details of previous experience, qualifications, age, and quoting Ref. S.A.1, "The Contract Journal."

THE NORWEST CONSTRUCTION CO., LTD., Ruthven Road, Liverpool, 21, invite applications from **AGENTS, SUB-AGENTS, FOREMEN/AGENTS**, fully experienced in Post Office duct-laying and manhole building contracts. The positions are permanent and progressive. Good salary and bonus, and a superannuation scheme in operation. Successful applicants required to travel to different areas throughout the U.K.—Apply in writing, with full details of previous experience.

For Advertisements received too late for classification see page 185

APPOINTMENTS WANTED

SENIOR CIVIL ENGINEER, qualified, 16 years' site experience, mainly R.C. work, DESIRES POST ENGINEER AGENT with progressive firm of contractors.—Write Box V.9986, "The Contract Journal."

EXPERIENCED PLANT CLERK, 23 years' experience in all phases of office routine and site work, DESIRES APPOINTMENT as OFFICE MANAGER/ASSISTANT O.M. in southern part of country. Successful applicants considered as well as overseas. First-class references. Offers to Box V.9949, "The Contract Journal."

GENERAL FOREMAN offers 30 years' experience in civil engineering, including sewage disposal, mains laying, cone reservoirs, concrete structures, etc., including bridgework. Expect to take full control from prelim. to final. Fully mobile. Each reply will be answered with particulars and promptitude. Write Box W.9950, "The Contract Journal."

PROJECT MANAGER, with extensive experience in site organisation and management of large overseas construction contracts, including power stations and marine structures, SEEKS APPOINTMENT OVERSEAS. Write Box W.9990, "The Contract Journal."

QUALIFIED LAND SURVEYOR, 46 years. SEEKS PERMANENT EMPLOYMENT in preliminary site surveys. 23 years' experience large-scale and topographical work. Experienced in survey organisation and administration. Write Box W.9989, "The Contract Journal."

CIVIL ENGINEER, at present abroad, SEEKS POSITION on large contract in U.K. or abroad. 10 years' varied overseas experience. Knowledge of several foreign languages. Write Box W.9964, "The Contract Journal."

ENGINEER/SURVEYOR, 24 years' experience civil engineering and building works in England and overseas, SEEKS PERMANENT SITUATION in south, preferably near Brighton, Sussex. All replies answered. Write Box W.9995, "The Contract Journal."

CIVIL ENG. AGENT, A.M.I.C.E., and experienced GENERAL FOREMAN SEEK CHANGE. Well experienced in all classes of work. Used to full control.—Write Box W.9988, "The Contract Journal."

A 34-year-old A.M.I.C.E. AVAILABLE IMMEDIATELY, having just completed contract overseas. Experienced in roads, sewers, buildings, bridges, home and abroad. Punctual, conscientious, and very fit. Write Box W.9992, "The Contract Journal."

WORK REQUIRED

FOR HIRE OR SUB-CONTRACTS. TD18s and STD6 BULLDOZERS and SCRAPERS, BTDOs and TIMBER WINCH. Experienced operators. Go anywhere.—COTSWOLD HAULAGE, Tanfield House, East Street, Farnham, Surrey. Tel.: Farnham 4049 day and night.

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SALOP COUNTY COUNCIL.

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LESLIE T. CARNegie, County Clerk.

County Buildings, Dumfries, 6th January, 1960.

CITY OF WINCHESTER.

For SALE, Karrier CK3 Moving Floor REFUSE COLLECTION VEHICLE, 1949. Inspect at Corporation Depot, Bar End Road, Winchester. Offers, in writing, to CITY ENGINEER, Guildhall, Winchester, by MONDAY, 25th January, 1960.

MALVERN URBAN DISTRICT COUNCIL.

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The Council have for SALE a 5-ton Aveling-Barford ROAD ROLLER, Type BD5, purchased in October, 1945, in good working order except for hand brake.

For Tender Forms and further particulars, apply to Mr. G. JUDSON, Surveyor and Water Engineer, The Council House, Malvern. Tenders, in sealed envelopes provided, must reach the undersigned not later than 23rd JANUARY, 1960.

J. BULMAN, Clerk of the Council.

The Council House, Malvern, 7th January, 1960.

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CIVIL ENGINEER AGENT, with extensive construction experience in the U.K. and overseas, WISHES to CONTACT a sound, reputable, medium-sized firm, preferably based in Southern England, offering an immediate appointment as CONTRACT MANAGER, leading to a directorship after satisfactory trial period. Nominal investment capital available.—Write Box X.9991, "The Contract Journal."

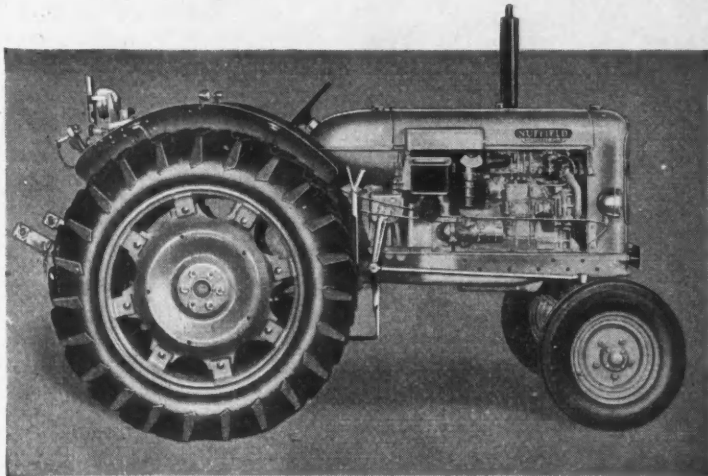
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INDEX TO ADVERTISERS

A	Page
A.B.C.D. (Raynes Park), Ltd.	142
Abelson & Co. (England), Ltd.	Cover ii, 131
Allam, E. P., & Co., Ltd.	136, 141
Allen, John, & Ford (Oxford), Ltd.	248
Allen, J., & Sons (Oxford), Ltd.	247
Amalgamated Limestone Corporation, Ltd.	131
A.R.C. Motor Co., Ltd.	250
Archway Plant Services	233
Armstrong-Whitworth (Pneumatic Tools), Ltd.	210
Astley Industrial Trust, Ltd.	220
Astolat Co., Ltd.	142
Ashley Copco (Great Britain), Ltd.	Cover ii, 144
Audax	144
Avon Insurance Co., Ltd.	134
B	
Bamford, J. C., (Excavators), Ltd.	ic, iic, iiic, ivc, xvi
Barnford, J. C., Ltd.	250
Beresford, James, & Son, Ltd.	242
Blaw Knox, Ltd.	184, 218
Bodell, F. O., & Co., Ltd.	144
Branch, Jack, (London)	144
Bray Construction Equipment, Ltd.	ii, iii
British Electrical Repairs, Ltd.	230
Bryson & Wade, Ltd.	135
B.T.R. Industries, Ltd.	243
Butters Bros. & Co., Ltd.	165
C	
Caswell Cranes & Erection, Ltd.	163
C.A.V. Ltd.	251
C.E.T. (Plant), Ltd.	230
Chadburns (Liverpool), Ltd.	230
Chascedo Engineering Co., Ltd.	230
Cohen, George, Sons & Co., Ltd.	230
Contractors' Services, Ltd.	141
County Commercial Cars (S/acs), Ltd.	223
Crawford, Martin, Ltd.	153
Cox, H., & Sons (Plant Hire), Ltd.	130
Cripps, R., & Co., Ltd.	154
D	
Davies Bros. (Denton), Ltd.	150
Davies, O. C., Ltd.	150
Dawson, W. A., Ltd.	158
Dilloway, P. W., Ltd.	ix
Dunlop, J., Ltd.	ix
Do, Ernest, & Sons, Ltd.	ix
Dunlop Rubber Co., Ltd.	ixb
E	
Egrie Construction Co., Ltd.	230
Emco (Great Britain), Ltd.	231
Expandite, Ltd.	229
F	
Felixpie, Ltd.	138, 139
Foster, Arthur, (East Ham), Ltd.	144
G	
Garrington	119
Gazeway Plant Hire, Ltd.	119
General Roadwork, Ltd.	219

G	Page
Gibson, F. & Co. (Newcastle), Ltd.	134
Gibson, John, & Sons, Ltd.	134
G.M. Power Plant Co., Ltd.	140
Green Bros. (Brandon), Ltd.	233
Green, Thos. Ltd.	166
Greenham Equipments, Ltd.	168
H	
Hardun & Sons, Ltd.	x
Hill, Richard, Ltd.	241
Hymatic Engineering Co., Ltd.	Cover vi
I	
Industrial Pumps, Ltd.	132
International Harvester Co. of Great Britain, Ltd.	xiv, xv
J	
Johnson, C. H., (Machinery), Ltd.	184
Jones, William, Ltd.	233, 245
K	
Kebrik Plant, Ltd.	162
Kirkby & Sons (Sales), Ltd.	233
L	
Lafarge Aluminous Cement Co., Ltd.	viii
Lead Wool Co., Ltd.	246
Leavesley, J. T., Ltd.	233
Leverton, H. & Co., Ltd.	viii
Liner Concrete Machinery Co., Ltd.	129
Lister, R. A. & Co., Ltd.	225
Liverpool Borax Co., Ltd.	136
Low, James F. & Co., Ltd.	vii
Lumley (Plann), Ltd.	viii
M	
Mabey & Johnson, Ltd.	222
Mackay Industrial Equipment, Ltd.	viii
Megator Pumps & Compressors, Ltd.	vi
Merton Engineering Co., Ltd.	186
Moore's Plant, Ltd.	iv
N	
Neal, R. H., & Co., Ltd.	Cover iv
Newton Sales Co., Ltd.	248
Nuffield Organisation (Universal Truck Division), Ltd.	183
O	
Olding, Jack, & Co., Ltd.	Cover v
P	
Palmer, G. J., & Sons	223
Parker, Frederick, Ltd.	129
Permanite, Ltd.	154
Pheasant Shovel Co., Ltd.	160
Pittail, Ltd.	232

Pike, George, Ltd.	221
Plus Gas Co., Ltd.	242
Potter, F. W., & Soar, Ltd.	160
Priest, B., & Sons, Ltd.	142
R	
Rainbow Industries, Ltd.	244
Raybost-Béacé, Ltd.	232
Raynor, H. B., & Co., Ltd.	248
Record Tower Cranes	Cover viii
Reid, R. & P., Ltd.	160
Roadless Traction, Ltd.	167
Road Machines (Drayton), Ltd.	224
S	
Saunders, H. A., Ltd.	94
Scammell Lorries, Ltd.	164
Search, William G., Ltd.	142
Secmore Exhibitions, Ltd.	140
Seely, London, Ltd.	Cover
Smith, James, Bros.	228
Smith, William, (Poplar), Ltd.	160
Standall Engineering, Ltd.	134
Swaveley Iron & Chemical Co., Ltd.	248
Steel Fabricators (Cardiff), Ltd.	226
Stothert & Pitt, Ltd.	132
Sturges, Ltd.	132
Sykes, Henry, Ltd.	xii
Symes (Plant Sales), Ltd.	246
T	
Tangyes, Ltd.	156
Tarjale, Ltd.	250
Taylor, F., & Sons (Manchester), Ltd.	158
Thorn, J., & Sons, Ltd.	157
Thwaites Engineering Co., Ltd.	via
Tice, Lamp Co., Ltd.	248
Trist, Hubert H. P., & Co., Ltd.	x
Tubeclamps Co., Ltd.	227
Tubewrights, Ltd.	248
Turner Manufacturing Co., Ltd.	252
U	
Under Water Welders & Repairers, Ltd.	246
United Dominions Trust, Ltd.	248
Ure-Tubex, Ltd.	Cover iii
Universal Divers, Ltd.	232
V	
Val de Travers Asphalt Paving Co., Ltd.	221
Vales Plant Register, Ltd.	248
Victor Products (Walsend), Ltd.	252
W	
Walnamur Co., Ltd.	247
Ward, Thos. W., Ltd.	lib, iiii, 130
Waywarden, Ltd.	144
Wedsbury Tube Co., Ltd.	140
Welding Industries, Ltd.	161
Western Hire Co., Ltd.	144
White, R., & Sons (Engineers), Ltd.	144
Whitlock Bros., Ltd.	144
Wright, V., (Leeds), Ltd.	244

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COUNTY COUNCIL OF SUTHERLAND. LONDON-EDINBURGH-THURSO TRUNK ROAD, A.9.

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TENDERS are invited from experienced contractors for the CONSTRUCTION of a BRIDGE in STEEL and REINFORCED CONCRETE, together with Earthworks and Surfacing of the Approach Roads thereto. The Bridge has a Skew Span of 58ft. and the width between parapets is 29ft. 6in. The approx. length of the Approaches is 1,200yd.

Plans may be seen at the Offices of the Consulting Engineers, MESSRS. BLYTH AND BLYTH M.M.I.C.E., 135 George Street, Edinburgh, and 56 High Street, Inverness, and at the Offices of the County Road Surveyor, Brora. Copies of the Specification, Conditions of Contract and Schedule can be obtained from the Engineers on payment of a deposit cheque of £5.5s. made out in favour of the County Council. Sealed Tenders, endorsed "Tender for Strathsteven Overline Bridge," should be lodged with the undersigned not later than Noon on FRIDAY, 29th January, 1960. The Council is not bound to accept the lowest or any Tender.

A. J. MACRAE,
County Clerk.

County Offices,
Golspie, Sutherland
31st December, 1959.

BOROUGH OF SOUTHALL.

ANNUAL CONTRACTS. 1ST APRIL, 1960-31ST MARCH, 1961.

The COUNCIL of the Borough of Southall invite TENDERS for the SUPPLY of the FOLLOWING:—

- (a) Artificial Stone Paving.
- (b) Bit-lime and Shingle.
- (c) Cleaning Materials and Drysaltery.
- (d) Granite Chippings.
- (e) Wellington Boots, Overalls and Gloves.
- (f) Surface Dressing Compounds for Roads.
- (g) Tools and Ironmongery.
- (h) Tarmacadam and Cold Asphalt.
- (i) Motor Spirit, Derv Fuel Oil, Paraffin and White Spirit.

Forms of Tender and particulars may be obtained at the Office of the Borough Engineer and Surveyor between the hours of 10 a.m. and 4 p.m. (Saturday, 10 a.m. and 12 noon).

Postal applications must include a stamped addressed foolscap envelope (a large envelope is required for two or more items).

Tenders, in envelope provided, bearing no indication of the sender, sealed and endorsed "Tender for —," must be delivered to the Town Clerk not later than 4 p.m. on the 2nd FEBRUARY, 1960.

The Council do not bind themselves to accept the lowest or any Tender and may accept part or parts of any Tender.

Town Clerk's Office,
South Road,
Southall, Middlesex.
January, 1960.

FRIERN BARNET URBAN DISTRICT COUNCIL.

ANNUAL TENDERS.

TENDERS are invited for the SUPPLY and DELIVERY of the UNDERMENTIONED MATERIALS for 12 months commencing 1st April, 1960:—

- Sand.
- Ballast.
- Clinker.
- Bitumen.
- Tar.
- Tarmacadam.
- Bitumen Macadam.
- Cold Asphalt.
- Paving Slabs.
- Lewin Road Sweeper Brush Rebristling.

And for the Relaying of Artificial Stone Paving and Kerbing and the Construction of Car Crossings, approx. £4,000 per annum.

Specification and Form of Tender, etc., may be obtained from the Engineer and Surveyor, Town Hall, S.11.

Tenders are to be delivered to the undersigned not later than 10 a.m. on WEDNESDAY, 3rd February, 1960.

R. S. CLOTHIER,
Clerk of the Council.

Town Hall,
N.11.
7th January, 1960.

BUCKS. WATER BOARD.

TENDERS are invited for the SUPPLY of ANY of the FOLLOWING CHEMICALS required for the treatment of a public water supply in the year ending 31st March, 1961:—

- Hydrated Lime.
- Quicklime.
- Pure Dried Vacuum Salt.
- Chlorine.

Details, Specifications and copies of the contract documents can be obtained from the undersigned on request.

Tenders, in plain sealed envelopes, suitably endorsed, to be delivered to the Clerk of the Bucks. Water Board, 7 Temple Square, Aylesbury, not later than Noon on 5th FEBRUARY, 1960.

R. POWNALL,
Engineer and Manager.

Byron Road,
Aylesbury.

PERSONAL ASSISTANT to muck shifter REQUIRED, due to promotion of incumbent; capable of progress measurement, initiative, customer and personnel relations; four-figure salary. Also a more junior opportunity for ENGINEER to do site measurement and assist estimating.—Apply in writing to D'CK HAMPTON, Broadview Farm, Blacknest, Alton, Hants.

CURRALL, LEWIS & MARTIN, LTD. REQUIRE AGENT or FNG/NEFR/AGENT, ENGINEERS and GENERAL FOREMAN for the construction of a large brick and concrete culvert and foul water sewers at Aston, Birmingham. The work includes deep excavations in open-cut and heading, heavy timbering, and steel sheet piling. Applicants should be fully experienced in similar work.—Apply in confidence, stating age, full details of experience and salary expected, to Managing Director, 11 Booth Street, Birmingham, 21.

AN ASSISTANT ENGINEER IS REQUIRED by C. J. PEARCE AND CO. LTD., Civil Engineers and Public Works Contractors, of Southall, Dawley, Shropshire, England. Good salary and prospects in a young and growing company.

SITE ENGINEER, aged 23-30, REQUIRED by contractor for work in Beds. and Herts. Interesting opportunity for right man.—Write Box V.9951, "The Contract Journal."

COUNTY BOROUGH OF MIDDLESBROUGH.

The COUNCIL proposes to establish a selected list of contractors from which TENDERS will be invited for the FOLLOWING CHEMISE:

New Police Headquarters.
The building comprises Office Block approx. 75ft. square and containing six floors. A Cell Block approx. 40ft. x 75ft., a Connecting Link 65ft. x 20ft., containing Basement and Two Floors. Traffic and Amenities Block approx. 100ft. x 45ft., on Two Floors. Garage approx. 125ft. x 50ft. with Shell Roof construction. The basic construction will be Reinforced Concrete Frame and in-situ Concrete Floor and Roof, to be executed by the general contractor.

Plans of Quantities will be available Monday, 1st February, 1960, and a period of about five weeks will be allowed for tendering.

Contractors who wish to be considered are asked to submit details of their experience to J. A. KENYON, M.I.C.E., M.I.Mun.E., M.T.P.I., Borough Engineer, Municipal Buildings, Lidsdalegh together with the names of three persons to whom reference can be made as to their technical and financial ability, not later than 21st January, 1960.

Firms selected to tender will be required to submit a deposit of £5.5s., returnable on receipt of a bona-fide Tender.
7th January, 1960.

BOROUGH OF HENDON.

WISE LANE, MILL HILL. (Section from Daws Lane to Pace Street, N.W.7.)

The BOROUGH COUNCIL invites TENDERS for WIDENING and RESURFACING of CARRIAGEWAY and FOOTWAY with FINE COLD ASPHALT, together with New Kerbing, etc.

The Form and Conditions of Tender, Specification and Bills of Quantities will be issued by, and Plans may be inspected at the offices of, the Borough Engineer and Surveyor, to whom applications for the documents must be made not later than Saturday, the 23rd January, 1960, accompanied by a deposit of £2.2s., which will be returned on receipt of a bona-fide Tender, on the form provided, and not subsequently withdrawn. Cheques should be made payable to the Borough Engineer.

Tenders must be received by the 8th FEBRUARY, 1960.

This invitation to tender is subject to certain terms and conditions, particulars of which will be forwarded to each tenderer.

R. H. WILLIAMS,
Town Clerk.

Town Hall,
Hendon, N.W.4.

BOROUGH OF SURBITON.

APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE PERMANENT APPOINTMENT in the Borough Engineer and Surveyor's Department. Salary Grade A.P.T. I (£640-£795, including Pension Contribution). Commencing salary within this grade will be fixed in the light of the successful applicant's experience and qualifications.

Applicants should be members of the Institute of Clerks of Works and have had considerable experience in the supervision of both building and road and sewer construction.

The appointment is subject to a medical examination, the Local Government Superannuation Acts, and the National Scheme of Conditions of Service.

A car allowance on the essential user basis for a car not exceeding 10 h.p. or 1,199 c.c., will be paid.

Application forms, which may be obtained from the undersigned, should be returned to MR. R. THIRLWAY, M.I.Mun.E., M.I.Struct.E., Registered Architect, Borough Engineer and Surveyor, not later than 29th JANUARY, 1960.

JOHN H. A. CRUNDELL,
Town Clerk.

Council Offices,
Surbiton, Surrey.

CITY OF LEICESTER.

WATER DEPARTMENT.

ASSISTANT CIVIL ENGINEERS REQUIRED for new capital schemes arising from the extensive expansion of the Undertaking. There are vacancies for both fully and partly qualified men, and salaries will depend upon age, qualifications and experience with a maximum of £1,070 for qualified Engineers with five years' training and experience at age 31.

National Conditions of Service apply. Superannuation. Medical examination.

Applications to the ENGINEER AND MANAGER, Water Department, 10, Fowling Green Street, Leicester, within 10 days of appearance of this advertisement.

TENDERS invited for LOADING BLOCK LIMESTONE with 1961 SHOVEL or similar machine. Price per ton for quantities of 1,000, 1,500 and 2,000 tons per week. Situation: West Glos. State earliest date machine available on site. Tel.: Larkwood 2074 (evenings 7.30-8.30).

GRADUATE ENGINEERS and DESIGNER DRAUGHTSMEN REQUIRED for all types of design work on large civil and structural engineering projects in the U.K. and overseas. Resident ENGINEER positions also available. A high rate of earnings are paid in this firm to those with initiative and ability.—London office of R. T. JAMES AND PARTNERS, Consulting Civil Engineers, 6 Lower Grosvenor Place, S.W.1.

SITE AGENT REQUIRED, London area. Carpenter and joiner by trade preferred. Experience in heavy reinforced concrete essential. Apply LAVENDER MC MILLAN CONTRACTORS LTD., 54 Cheam Common Road, Worcester Park, Surrey.

GENERAL FOREMAN REQUIRED immediately by British contractors for important overseas building contract. Preferably carpenter trained and with previous experience of native labour, together with a record of success in cable works contracts. £1,750 (gross) per annum offered, plus free single accommodation and paid home leave on completion.—Apply, with full details, to Box V.9948, "The Contract Journal."

OLD-ESTABLISHED Leicestershire firm of roofing contractors with rapidly expanding business REQUIRE HIGHLY COMPETENT MANAGER to take charge of contracts. Applicants must have had at least five years' experience in similar position, a record of successful management of labour and a sound knowledge of estimating. Replies should include record of past employments and all personal details.—Apply Box V.9997, "The Contract Journal."

A FIRST-CLASS PRACTICAL ENGINEER IS REQUIRED by C. J. PEARCE AND CO. LTD., Civil Engineers and Public Works Contractors, of Southall, Dawley, Shropshire, England. Good salary and prospects in a young and growing company.

SOMERSET COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPOINTMENT OF SENIOR ASSISTANT ENGINEER, GRADE A.P.T. V. (£1,220-£1,375).

APPLICATIONS are invited for the ABOVE APPOINTMENT from Corporate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers. Applicant should have had experience in traffic engineering.

The County Council are considering the installation of an electronic computer and in the initial stages the appointment will involve part-time work on the civil engineering aspects of this installation, with particular reference to the design of a system which will allow the engineers the technical information they require to carry out the works programme. The appointment does not involve work on the design of the machine itself.

Car allowance. Superannuation. Full particulars and forms obtainable from the undersigned.

Closing date: 2nd FEBRUARY, 1960.

J. H. H. WILKES,
County Surveyor.

County Hall,
Taunton.

BOROUGH OF LEYTON.

(Municipal Borough in Essex; population approx. 100,000.)

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF WORKS SUPERINTENDENT.

APPLICATIONS are invited for the FOLLOWING PERMANENT APPOINTMENT:

Works Superintendent within Grade A.P.T. V (£1,220-£1,375 p.a.), plus London Weighings of £30 p.a.

Applicants must have had considerable experience in the building industry, and the person appointed will be primarily responsible for the expansion of the Direct Labour Building Section of the Borough Engineer's Department and the supervision of all works carried out by Direct Labour.

Essential user car allowance and favourable consideration to the provision of housing accommodation.

Details and Conditions of the Appointment may be obtained on application to the Borough Engineer, Town Hall, Leyton, London, E.10, to whom are solicited applications should be sent not later than MONDAY, 8th February, 1960.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

BOROUGH OF CHELTENHAM.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS:

(a) Senior Engineering Assistant, Special Grade (£785-£1,070).

(b) Engineering Assistant, Grade A.P.T. II (£765-£880).

Applicants for (a) should have passed the Final Examination of the Institution of Civil Engineers, or the Institution of Municipal Engineers, and be experienced in drainage, highways and constructional work; (b) must have passed Part I of the Institution of Civil Engineers' Examination, or the Intermediate Examination of the Institution of Municipal Engineers, and have had a good general training and experience in Municipal Engineering.

Applicants are subject to the National Joint Council's Conditions of Service; to one month's notice in writing on either side; and to the successful applicants passing a medical examination and contributing to the Corporation's Superannuation Fund.

Applications, endorsed with the name of appointment applied for, stating age, qualifications, experience, and giving the names of two referees, are to reach MR. C. GOLD MARSHALL, M.B.E., B.Sc., M.I.C.E., Borough Engineer, P.O. Box No. 12, Municipal Offices, Cheltenham, not later than SATURDAY, 30th January, 1960.

F. D. LITTLEWOOD,
Town Clerk.

Municipal Offices,
Cheltenham.

BOROUGH OF DAGENHAM.

APPOINTMENT OF CLERICAL ASSISTANT, C.D.I.

APPLICATIONS are invited for this PERMANENT POSITION in the Borough Surveyor's Department from persons with previous clerical experience, preferably with a knowledge of civil engineering plant and materials.

Salary, at age 26 years and over: £625 to £700 p.a. Applications Form and further particulars obtainable from the Borough Engineer and Surveyor.

Closing date: 30th JANUARY, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

GENERAL FOREMAN. Competent man WANTED, experienced in R.C. work, pipelines, etc., for contract in Midlands of approx. 18 months' duration. Only men with the necessary initiative and driving force need apply.—State details of experience and wages required to Box V.9952, "The Contract Journal."

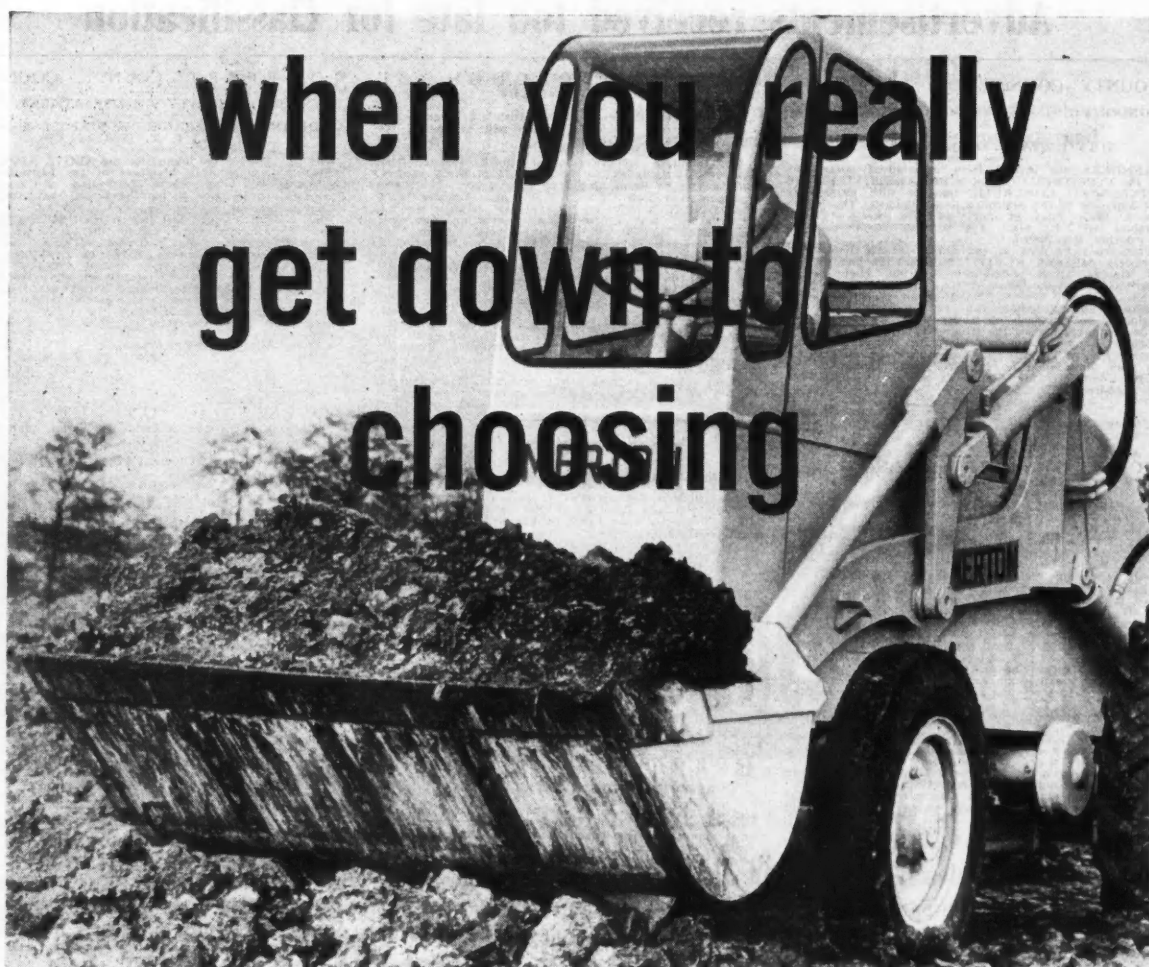
WANTED, WOMAN able to deal with men, bulldozers and contractors' agents, telephone and office work. Lively future for personable applicant. Office adjacent Waterloo-Alton railway line.—Apply in writing to Miss Toogood, DICK HAMPTON, Broadview Farm, Blacknest, Alton, Hants.

ASSISTANT ENGINEER REQUIRED by expanding firm. Prospects of taking complete charge of contracts in interesting shell roof development. Previous site work experience essential.—THE PIPE LINE AND ENGINEERING CO., LTD., Claxton Alton, Hampshire.

AGENT/SUPERVISOR REQUIRED. Must be experienced in the laying both by machine and hand of hot-rolled asphalt and coated macadam. Good salary and conditions. Car provided. Work in the main will be in the Berkshire, Oxfordshire area, but must be prepared to travel.—Applications, in confidence, to The Manager, AMEY'S ASPHALT CO., LTD., Sutton Courtenay, Abingdon, Berks.

QUALIFIED SENIOR CIVIL ENGINEER for important prestressed concrete work in London, carried out by contractors, offering also progressive career in growing organisation.—Write Box V.9998, "The Contract Journal."

SENIOR ENGINEER/AGENT for reconstruction work in London. The project is of exceptional technical interest and requires a man of good organisational ability.—Write Box V.9999, "The Contract Journal."



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THE CONTRACT JOURNAL

INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

THE CONTRACT JOURNAL

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and
THE CONTRACTOR
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PRINCIPAL CONTENTS

	PAGE
First Lift Slab Contract in Great Britain: Nine-storey flats at Birmingham	189
Elevated Motorway Design: Cantilever Structure Prestressed by Cables	190
Stranded Cables Used in Prestressing on New Fulham Building	191
N.F.B.T.E. Publish Safety Code	192
Great Ouse Scheme: Part III Tenders	192
John Sumner's Notebook	193
International Construction	194
Men and Movements	198
Planning Engineer's Task Discussed at Building Estimators' Meeting	199
Late Construction News	199
Talking of Safety, by "Dragee"	200
For the Diary	200
Roads: Municipal Engineers' Suggestions for Improvements	201
Seven-storey High Holborn Building Extensions	201
Trade Section	202
CURRENT CONSTRUCTIONAL ACTIVITIES:	
Projects	206
Contracts	208
Awards	214

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Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

OVERSEAS CONSTRUCTION PROSPECTS

DURING recent years the value of work done overseas by British contractors has increased annually to reach £120.2m. in the year ended March 31, 1959, about 9 per cent. of all new work done by British contractors.

The direct contribution of constructional work to the country's overseas earnings is less than the gross value of contracts, part of which is absorbed by expenditure in local currency on labour and materials. But there is also a wider contribution, as indicated in the Treasury's current *Bulletin for Industry*. Most large constructional projects take shape in three stages: A first stage of engineering consultancy; a second stage of building and civil engineering; a third stage of supply and installation of any necessary plants and machinery. Traditionally each stage is put out to tender separately, though in "turnkey" offers for the execution of complete projects—favoured particularly by customers in less-developed countries—contractors often form a consortium with consulting engineers and manufacturers of plant and machinery. Orders won in the first two stages introduce British personnel and techniques and frequently lead to orders for capital goods in the third. Moreover, construction can be a lasting advertisement for British products generally.

Constructional firms, the Treasury's *Bulletin* points out, have two broad choices in competing for business overseas. They can establish local organisations in selected countries with the intention of carrying out the general run of jobs for which tenders are invited locally. This is the line adopted in the past few years by many British firms in Canada, now normally the largest single market. Alternatively, they can restrict their interest to large jobs capable of being administered from Britain. These jobs, of course, form a small proportion of the world's constructional contracts.

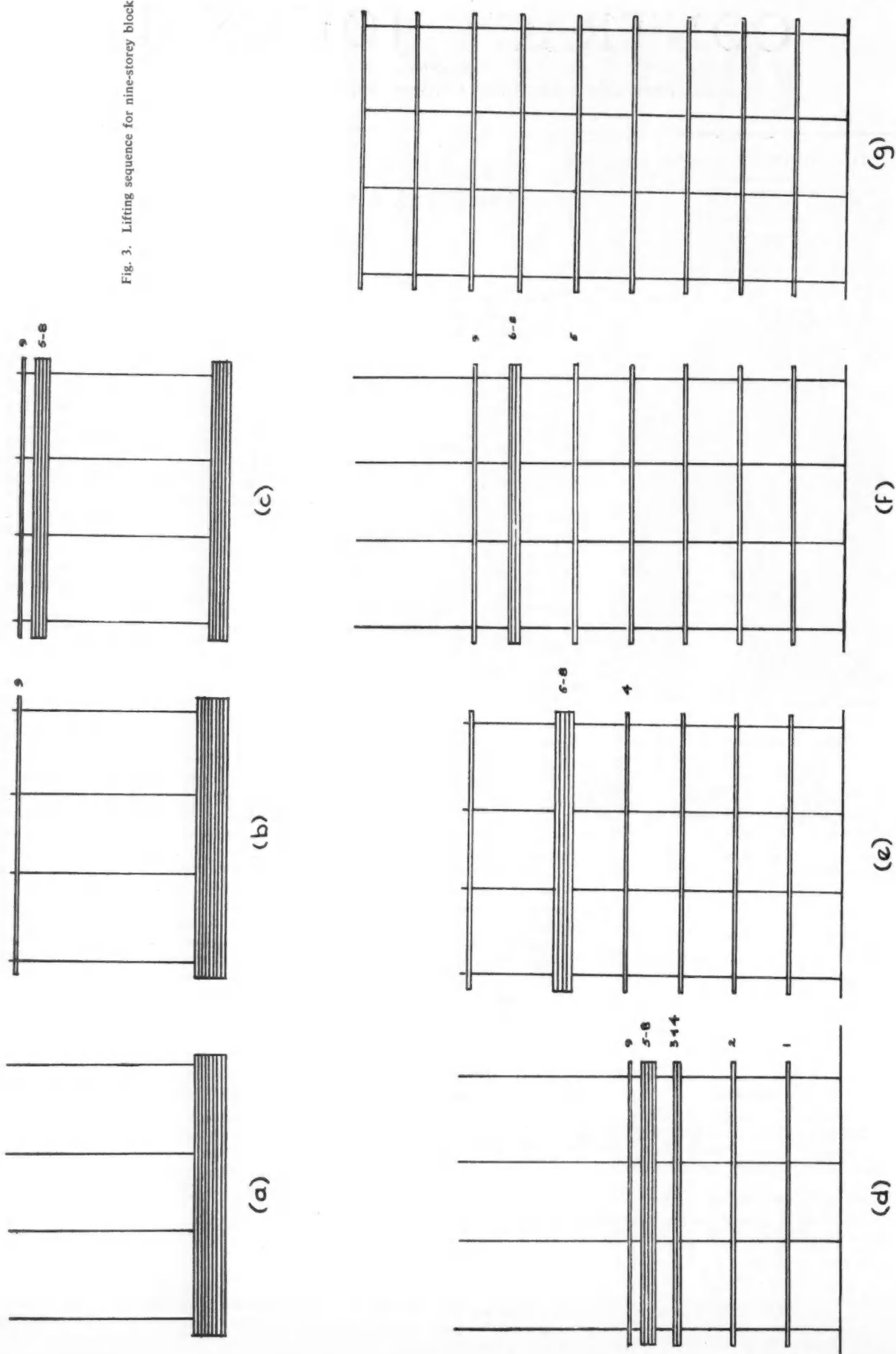
Of overseas work done for the 12 months ended March 31, 1959, some 65 per cent. was in the sterling area, 26 per cent. in the dollar area and 9 per cent. in the rest of the world. Commonwealth Africa, dollar America (mainly Canada), the Middle East and India stand out as the regions of greatest activity. This pattern does not approximate to the world distribution of constructional activity. Although construction tends to decline as a proportion of total investment as economies develop, in absolute terms it is concentrated in the advanced industrial countries. In 1957 investment in construction (including house-building) amounted to about £1,600m. in Britain, £17,600m. in the U.S. and £1,900m. in Germany. Second in order of magnitude is the small group of rapidly developing countries with substantial industrial sectors. In Canada for example, investment in construction amounted to £2,200m. in 1957.

However, the bulk of British contracting is in the low-income countries, where a great deal of basic construction remains to be done but local firms are normally unable to tackle the larger and more complicated projects. These markets are characterised by efforts to promote development and the concomitant mobilisation of domestic and international capital.

Much of the flow of capital from international institutions, governments and private sources goes to finance constructional schemes in low-income countries. When contracts are put out to international tender, as in the case of schemes financed by loans from the International Bank for Reconstruction and Development, or many kinds of government aid, British bids usually prove keenly competitive. To June of last year Britain had obtained orders worth £140m. arising from International Bank loans—half as much again as our paid-in subscription to the Bank—and a large proportion of this business was due to contractors.

With the doubling of the International Bank's capital, the proposal for an International Development Association, the increasing flow of government aid and the good prospects for private investment overseas, the scope for constructional work abroad should widen further in the next few years.

Fig. 3. Lifting sequence for nine-storey block



FIRST LIFT SLAB CONTRACT IN GREAT BRITAIN

Nine-storey Flats at Birmingham

From a Special Correspondent

WORK has recently started on the first contract to be awarded in Great Britain using the lift slab method of construction, comprising three nine-storey blocks of flats at Northfields, Birmingham.

Lift slab is a method of building erection which consists of pouring the upper floors and roof of the structure around the columns at ground level, using a separating medium between each slab and employing the ground floor as the initial soffit form. After the slabs have matured they are lifted by hydraulic jacks to their correct positions and are then permanently connected to the columns.

The three blocks of flats at Long Nuke Road, Northfield, were designed by Mr. A. G. Sheppard Fidler, M.A., B.Arch., F.R.I.B.A., A.M.T.P.I., the City Architect of Birmingham, and the Douglas Organisation was invited to submit a tender for the structural design and complete construction, using the lift slab method. The contract was awarded on September 4, 1959, and work commenced on site on September 21.

Structural Design

The buildings are of solid flat plate construction, using steel columns of universal column section employing sections in the 10in. x 10in. and 8in. x 8in. range. Attachments of the slabs to the columns is through fabricated steel collars cast in the concrete, and later welded to the columns. A detail of one of the collars is shown in Fig. 1, and a typical connection is shown in Fig. 2.

In addition to forming the connection between column and slab the fabricated steel collar provides a means whereby the hydraulic jack is connected to the slab and acts as a guide as the slab slides up the column during lifting. It also provides a "shear head," thus replacing the conventional column capital of the well-known "mushroom" type.

The structural design of the building generally follows orthodox practice for flat slab, using the moment distribution analysis of continuous frames, as laid down in the current issue of CP.114.

However, lift slab construction does involve consideration of a number of points not met with in more orthodox design, and these are set out below.

(a) Stresses in the Slabs

During lifting the slabs are simply supported by the lifting rods and are freely capable of rotation about the points of support. Therefore a separate moment distribution was performed for the conditions during the lifting operation treating the bents as simply supported under slab self-weight loading. After the slabs have been welded into position the column exercises a restraint on the slab, and when carrying out moment distribution calculations for the final conditions column stiffnesses are considered for all loads imposed after connection. Superimposed dead loads and live loads are separated and the slabs are considered for the worst disposition of live load possible.

The question of stresses due to the possibility of the slab being at different elevations at the various columns during lifting is also considered.

In general, the elevations of the slabs can be controlled to a difference of $\frac{1}{4}$ in. between columns, and even more accurately if necessary. Where the superimposed load is high compared with the load during lifting as in the

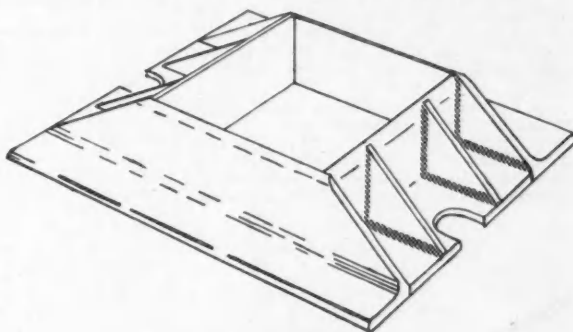


Fig. 1. Typical collar

structure under consideration, stresses during lifting due to selfweight and possible differences in elevation, are less than the stresses under final working conditions.

(b) Buckling of Columns

The strength of the columns and in particular their resistance to buckling during lifting must be carefully investigated at all stages of lifting, and the Euler formula was employed for this purpose. Columns were first checked for lifting the roof to the top of the first lift of columns. In this case the column acts as a free-standing cantilever column, i.e., fixed at the base and free at the top. After the roof is temporarily fixed in position the slab offers some restraint to the columns, the degree of which depends

upon the relative stiffness of the slab and columns, and also on the type of connection employed. Subsequently, several slabs can be lifted at the same time. In the case of the City of Birmingham flats, a further check was made for the condition when five slabs were parked at the top of the column and a further four slabs are being lifted. These checks were repeated for further lifts off the spliced column extensions.

(c) Stresses in Collars

As previously discussed, the collar acts as a shear head and a bearing plate to transmit the reaction of the column. A linear distribution of bearing stress across the collar is assumed, and the various parts of the collar and the welds connecting the parts are design to resist the bending moments and shears arising from these moments. As in the analysis of the slabs, conditions during lifting are considered separately from the final conditions. Bending moments are transferred by means of reinforcement welded to the collar.

(d) Connections

The load from the collar is transferred to the column by means of shear blocks. The thickness of the shear blocks is determined from bearing requirements and the length of the fillet welds from the load to be transmitted in shear. Bending moments are transmitted by the horizontal fillet weld between the collar and the shear block.

(e) Foundations

These differ little from orthodox foundations, except that it is essential to provide a rigid connection between the base of the column and the foundation in order that the Euler condition of "base fixity" is obtained.

Construction Methods

The construction of the foundations and the casting of the ground-floor slab do not differ from conventional construction.

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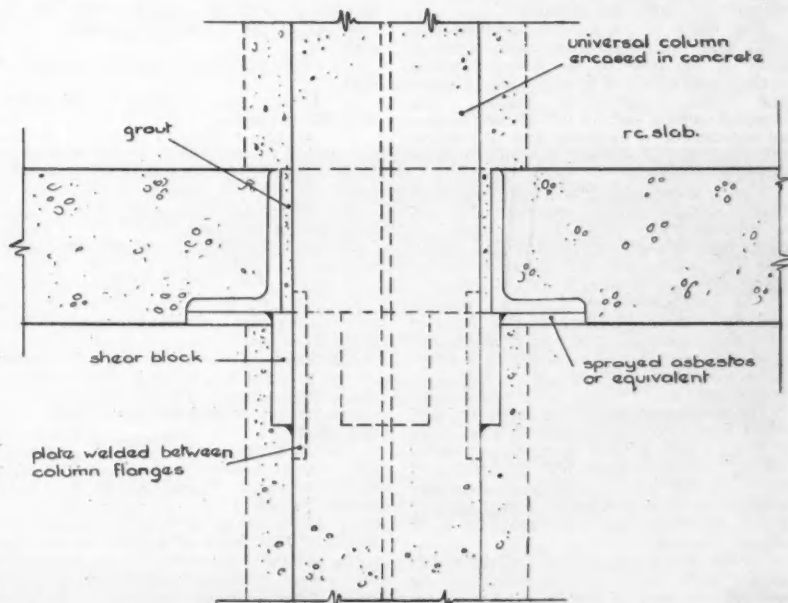


Fig. 2. Typical connection (one hour fire resistance)

ELEVATED MOTORWAY DESIGN

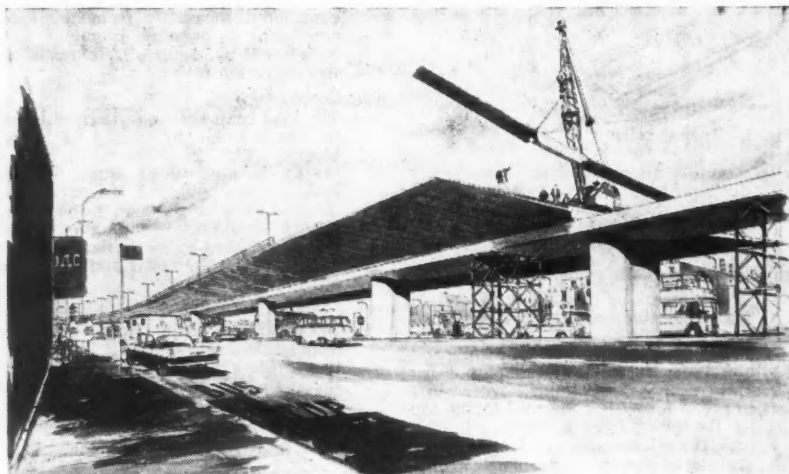
Cantilevered Structure Prestressed by Cables

FURTHER details of the winning design in the Prestressed Concrete Development Group's competition for planning an elevated motorway were given at a conference held last week at the head office of G. K. N. Reinforcements, Ltd.

As reported in *The Contract Journal* of December 10, 1959, three members of this office—W. F. G. Crozier, M.Sc., M.I.C.E.; J. D. Bennett, B.Eng.; and C. G. Kerrey—evolved the design which was awarded the £500 first prize. The assessors comment on their entry was that it was "a clean design, aesthetically acceptable, structurally good and providing a reasonable traffic solution for a design speed of 50-m.p.h."

The scheme is based on the use of precast prestressed "I" section beams which are placed from the portion of the roadway already constructed. These "I" beams, which are 59ft. long, are supported on a series of in-situ beams which have a centre span of 60ft. and 30ft. cantilevers at each end. The spine beams are supported at 60ft. centres by single columns 9ft. wide, and the cantilever ends are dove-

tailed into one another to provide for transfer of loads and expansion. The width of the central reservation is 15ft., and the only construction which is done at the level of the lower roadway is the construction of foundations, columns and main longitudinal beams. The unusual column section was chosen to give an appearance of lightness and also makes the best possible use of the concrete strength.



Artist's impression of the elevated motorway under construction

tailed into one another to provide for transfer of loads and expansion.

The width of the central reservation is 15ft., and the only construction which is done at the level of the lower roadway is the construction of foundations, columns and main longitudinal beams. The unusual column section was chosen to give an appearance of lightness and also makes the best possible use of the concrete strength.

The prestressed, precast "I" section beams have a bottom flange 3ft. wide and weigh five tons. They are designed to carry their self weight, construction traffic, and the weight of wet concrete which forms the deck to within 6in. of the edge of the roadway. The taper of the units and the camber of the road are used to vary the eccentricity of the straight prestressing wires so that it would be possible to manufacture the units on a long-line system.

The units must always be supported and lifted from the centre 12ft. so that there is at least 23ft. of unit cantilevering under its self weight. They will be lifted and placed in position by a portable crane and brought up to the crane on a light railway track, travelling over the concrete deck already poured.

Owing to different amounts of deflection at the ends of the cantilevers and the possible warping of the beams after construction, the ends of the beams may tend to be at different levels which would spoil

Construction Programme

The progress of construction will thus be as follows:—

1. Construct at the lower level the foundations, columns and the bottom 2ft. 6in. of the main longitudinal beams. Foundations will be on 30ft. piles, each capable of carrying 60 tons. Props will be left in under the main longitudinal beams.

2. Bed on the main beams the transverse prestressed units. These units are waisted where they rest on the main beam. It will be necessary to omit the first two units on each cantilever to have room for jacking.

3. By use of the stiffening beams, level up the ends of the precast units.

4. Pour in-situ concrete to within 6ft. of the ends of the cantilevers, casting in place both the transverse and longitudinal prestressing cables formed of strand wire.

Over the supports precast end blocks will be cast in position, together with the remainder of the longitudinal beam in this area.

5. Carry out transverse prestressing of deck.

6. Tension the 11 extra strand cables over the supports.

7. Complete upstand portion of the longitudinal beam.

8. Carry out longitudinal prestressing from the forward end of the job.

9. Insert the missing two transverse units in the next bay.

10. Complete in-situ concrete kerbs, etc.

Exit and Access

With regard to the method of entering and leaving the elevated highway, it was decided to make these parallel exit and access lanes with foundations in the verges of the existing lower road. This will reduce the amount of special structural consideration needed at these points to a minimum.

The sloping ramps will be equipped with patent heating units for use during frosty weather. These heating units will be in the form of uninsulated 12-gauge steel fabric with a low-voltage power supply. This form of heating is thought to be the most economical from the point of view of installation and running costs and has recently been used successfully on several experimental projects.

In place of a rigid parapet railing, use

has been made of the Multisafety cable highway guard. The particular type used is the four-cable fence, and provides a safety barrier of a capacity for absorbing the energy of impinging vehicles at speeds of 50 miles an hour or over. The cables will be carried on precast concrete posts built into the kerb.

The designers believe that although this fence may not have the æsthetic appeal of many others, its safety value far and away outweighs any other consideration. As a protection to users of the lower road, a splash guard has been provided on the lower portion of the safety fence.

£14m. per Mile

Mr. Crozier said at the conference that the system could be adapted for any set of conditions. The approximate cost of construction would be about £14m. per mile, and the traffic capacity of the structure would be approximately 2,500 vehicles an hour in either direction.

(Concluded from previous page)

When this stage has been reached the lifting collars are threaded on to the columns and wedged at a sufficient distance from the base plates to provide working head room. The columns are then erected and plumbed and grouted. A separating medium is then applied to the ground-floor slabs. This is a resin dissolved in a volatile spirit and is sprayed over the surface, the volatile spirit evaporating, leaving a thin film of resin on the concrete. This film acts as a curing membrane and also prevents the new concrete of the lifted slabs from bonding to the slab below.

As soon as the separating medium has hardened sufficiently, reinforcement is placed and fixed in position.

Concrete is then placed in an orthodox manner to complete the first-floor slab. The procedure is repeated for the remaining slabs until all have been cast.

After the roof slab has cured sufficiently, lifting commences.

Lifting

The sequence of lifting is shown diagrammatically in Figures 3(a)-(g).

- (a) The first-stage columns are erected and the nine slabs constructed on the ground.

- (b) The roof slab (slab 9) is lifted to a temporary position at the top of the first-stage columns.

- (c) Slabs 5, 6, 7 and 8 are lifted together and "parked" beneath the roof slab.

- (d) Slabs 1, 2, 3 and 4 are lifted together, and slabs 1, 2 and 3 are fixed in their final positions. Slab 4 is left "parked" on top of slab 3. The jacks are then removed from the top of the columns and the stage 2 column extensions spliced on.

- (e) The roof slab is lifted to the top of the stage 2 column and "parked." Slabs 5, 6, 7 and 8 are lifted together, and slab 5 secured in its final position. Slabs 6, 7 and 8 are left "parked" on slab 5. Slab 4 is lifted to its final position and secured.

- (f) Slabs 6, 7 and 8 are lifted, and slab 6 secured in its final position. Slabs 7 and 8 are left "parked" on slab 6. The stage 3 column extensions are spliced on.

- (g) Roof slab is lifted to its final position. Slabs 7 and 8 are lifted to their final positions and secured.

Acknowledgments

Acknowledgment is made to the City Architect of Birmingham, Mr. A. G. Sheppard Fidler, M.A., B.Arch., F.R.I.B.A., A.M.T.P.I., for permission to publish this article. His Department is responsible for the design and supervision of this project.

The main contractors are Robert M. Douglas (Contractors), Ltd., who carried out the structural design in close co-operation with their subsidiary, British Lift Slab, Ltd., who are the licensed lifting sub-contractors.

STRANDED CABLES USED IN PRESTRESSING ON NEW FULHAM BUILDING

IN planning the new £1½m. block for the North Thames Gas Board, now under construction on a site off Albert Embankment, Fulham, the structural engineer was faced with the problem of providing a clear span of 50ft. on a site which allowed the very minimum of construction depth. Not only was the site confined, but the height of the building was limited to 100ft.

The answer was found in the use of lightweight concrete floor beams, prestressed by means of stranded cables instead of bars. The requirements of the London Building Act on steelwork in regard to casing with concrete and normal reinforced concrete would have involved particularly deep and heavy floor beams.

The development is planned in two high blocks forming a "T" and containing offices, laboratories and canteen accommodation. Each is six storeys and 100ft. high, and is built above single-storey workshops, which cover almost all of the site. At the rear of the high blocks is placed a long two-storey building, containing computer equipment.

At either end of the high block on the main frontage are escape staircases, one of which incorporates a tower with a room at each floor level to test domestic appliances. Built out from the centre of this block at first-floor level is an exhibition hall and cinema, which has no fenestration and is heated by the Plenum system.

Total floor area of the building is 214,600 sq. ft., and the site covers 3½ acres.

By using the concrete floor slab itself as the top flange of a composite Tee beam,

the utmost economy of materials could be achieved. But to minimise construction depth the floor ribs needed to be closely spaced. The number of beams involved, therefore, pointed to precasting and prestressing on the long line system as the best means of producing a repetitive unit. A preliminary cost estimate for such a

production techniques in concrete casting and the means of accommodating architectural and service requirements.

An architectural design office and concrete testing laboratories are among the site buildings which have been set up.

Careful planning of operations has allowed the casting of many of the precast units on site, within reach of a tower crane. An elaborate preliminary setting-out control was needed in laying the prestressing beds, because of the accuracy and precision called for in the precast units. The site being an old gravel pit, large anchor beds were necessary at each end of the casting beds. The beds are of precast concrete sections, so designed to enable dismantling and re-erection on a new site.

The stringent checking of concrete control, so necessary with the high working stresses involved, had also been systemised before the start of site work. A 9:1 mix with High Alumina cement was used which, with its high compression and tension strengths, made possible the use of 7 strands for pretensioning and allows a complete turnaround of a casting bed within 24 hours. The rating of the prestressed units is 10,000lb. p.s.i. at 28 days.

This is the first use of stranded cable for pretensioning on a building in the London area. Because more cover is given to strands than to bars, fire resistance of the beams has been considerably improved. As a result, a fire-proof false ceiling is no longer required and a saving on the total building cost is achieved.

Monolithic Structure

All components have a structural function and the whole structure becomes monolithic. Edge beams are supported directly on columns without supports.

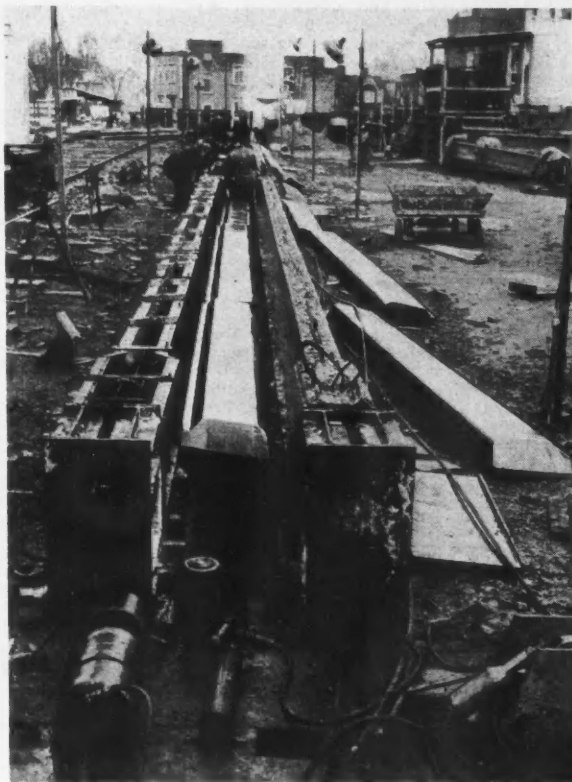
The basic floor structure has precast ribs at 3ft. 4in. centres which act in conjunction with the cast in-situ floor deck as a Tee beam. The overall depth of construction is only 24in. for the 50ft. span.

An idea of the intrinsic economy of the system can be gained from the overall weight of the floor structure which is less than 70lb. per sq. ft. for the 50ft. span, including deck and beams. This is less weight than a 6in. solid slab.

Composite action of precast and in-situ portions has also been made use of in the edge beams and in the deck slab itself. Here the lower portion is precast in the form of permanent shuttering and acts together with the in-situ topping.

The laboratories call for a complex of

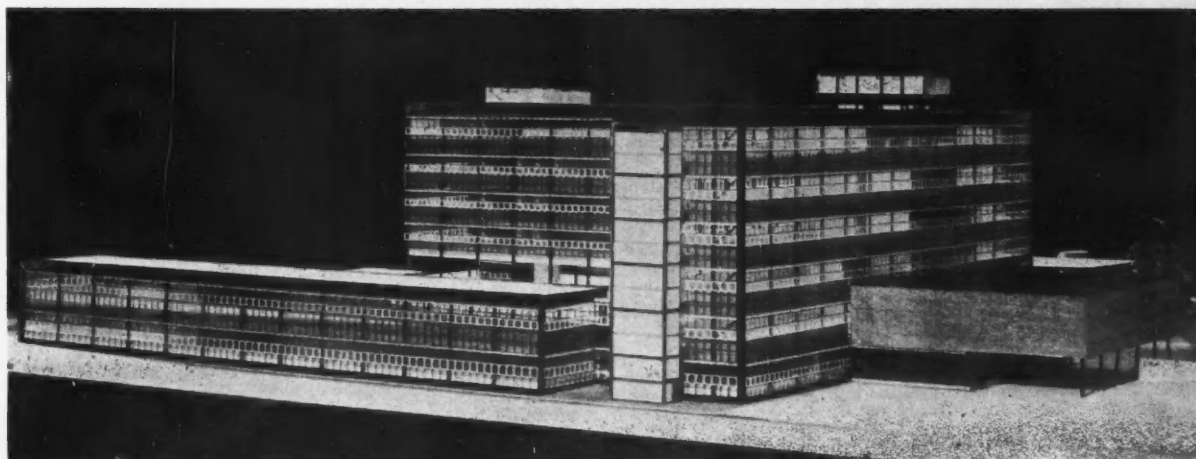
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One of the two prestressing beds set up on site

scheme showed a saving of nearly £60,000 over structural steel with concrete cladding.

A feature of this development has been the close co-operation between the architects, main contractors and sub-contractors for the precast concrete. Following the placing of the contracts, many months were spent on evolving mass



Model of the building showing the exhibition hall and cinema on the right and the two-storey computer building on the left

N.F.B.T.E. PUBLISH SAFETY GUIDE

AS part of a campaign to reduce accidents in the building industry, the National Federation of Building Trades Employers have published a booklet, entitled "Organise For Safety," to guide management on the formulation and applications of accident-prevention policies.

Simply and clearly set-out, the 16-page booklet points out that many more man-hours are lost each year through accidents than in industrial disputes, and that the reduction in the number of these accidents and their cost must be considered as a challenge to everyone in the industry, but primarily to management. It describes how the indirect cost of an accident is far greater than the actual expenditure involved, and comments on the importance of keeping detailed records within organisations of accidents which have occurred.

On the subject of forming and implementing a definite policy of safety, the booklet emphasises that one person, normally a director, should be given the overall responsibility for accident prevention, and that the policy laid down should ensure that as much attention is paid to safety as to any other factor of production at every level in the firm. The duties and responsibilities of safety officers, agents and general foremen, trades foremen and gangers, and operatives, in connection with accident prevention, are also dealt with in the booklet.

Among appendices at the back of the guide are a list of publications devoted to accident prevention, a copy of an Accident Report Form, and details of prescribed registers and certificates required by the Building Regulations.

The recommendations contained in the booklet, copies of which are obtainable from the N.F.B.T.E., 82 New Cavendish Street, London, W.1, at 2s. 6d. each, are capable of application in principle by all building firms irrespective of their size, for while the full structure of safety organisation which is recommended may not be appropriate for the smaller firms, they can apply the underlying principles with such modifications as may be necessary to suit their particular circumstances.

LONDON HOSPITAL REBUILDING PROJECT

Although no authority has yet been given to the hospital board to begin planning, the Ministry of Health has agreed in principle to the rebuilding of St. Mary's Hospital, Paddington, on a site adjoining the present hospital.

The board, in a report published last week, express the hope "that in their next report (1963) they will be able to announce that the first stage of the rebuilding of St. Mary's is in hand." Meanwhile, they have been asked by the Ministry to prepare "schedules of accommodation" after which an architect will be appointed.

HUMBER BRIDGE: WHEN?

At the first meeting of the Humber Bridge Board held recently in Hull it was decided to approach the Minister of Transport to ascertain his views on the building of the bridge and to obtain an idea of the priority likely to be accorded the project. A grant is also to be sought. It was pointed out that having got power to build the bridge the Board also had the powers of compulsory purchase of land which would be required.

The Board agreed to ask Freeman, Fox and Partners to act as consulting engineers for the scheme; this firm had been consulting engineers for the purpose of the Humber Bridge Bill and Act and had prepared plans and given evidence before Parliament.

GREAT OUSE SCHEME

Part III Tenders

PART III of the Great Ouse River Board's flood protection scheme, which includes the construction of a cut-off channel 27 miles long, is now out to public tender (see page 173). The channel will involve the excavation of about 7,000,000 cu. yd. of material.

Also included in the scheme is the construction of diversion channels, sluices and siphons at the intersections of the cut-off channel with the River Wissey and Little Ouse and of the head sluice at the River Lark, and the construction of road bridges, footbridges and weirs, together with the Wissington Railway Bridge.

The consulting engineers for the scheme are Sir M. MacDonald and Partners, 72 Victoria Street, London, S.W.1.

SEWAGE CONTAMINATION OF BEACHES

A report by a research committee of the Public Health Laboratory Service, which is directed by the Medical Research Council, states "studies suggest that with the possible exception of a few aesthetically revolting beaches round the coast of England and Wales, the risk to health of bathing in sewage-contaminated sea-water can, for all practical purposes, be ignored."

Commenting on the report in a circular to local authorities, the Minister of Housing and Local Government says: "The report makes it clear that there are beaches which are grossly polluted and where, even though the risk to health is remote, active steps should be taken to remedy the pollution. The appropriate action will, of course, vary with local circumstances, but the Minister believes that a great deal of the pollution which occurs at present is attributable to outfalls constructed many years ago, some of which discharge sewage too close to the shore or have become overloaded in the course of time."

REGISTERED HOUSE-BUILDERS' OFFICERS

At the annual general meeting of the Federation of Registered House-Builders, held in London last week, the following were elected as officers of the Federation for 1960: President—Mr. E. R. Bowyer, O.B.E., J.P., F.I.O.B. (Slough); senior vice-president—Mr. H. Ford (Birmingham); junior vice-president—Mr. J. L. Rawsthorne, F.I.O.B. (Wallasey); immediate past-president—Mr. I. W. Owen, F.I.O.B. (Stockport).

(Concluded from previous page)

services; there are five circuits of gas for experimental purposes, and A.C. and D.C. electrical circuits of varying voltage. The distance between ceiling and floor span above is 4ft., the 24in. precast beams leaving a 2ft. space for the service ducts. Access to these ducts is through the ceilings, holes being bored through a maximum of 3in. of concrete. A 3ft. 6in. height between joists allows sufficient fall for drainage ducts.

Contractors

Work started on the site in August, 1959, and is expected to take two years to complete. The main contractors, Trollope and Colls, Ltd.

Piling was sub-contracted to West's Piling and Construction Co., Ltd., who sunk more than 400 piles on the site in eight weeks. The pile caps and ground beams are now nearing completion.

The sub-contractors for the prestressed frame and floors are Pierhead, Ltd. Concrete for use in the casting beds is mixed in a Liner Cumflow pan mixer, served by a batching plant.

The architects for the scheme are E. R. Collister and Associates, 70 Victoria Street, London, S.W.1.

PORTSMOUTH ROADWORKS HIT BY INADEQUATE GRANTS

PORTSMOUTH city engineer, Mr. W. E. C. Chamberlain, is dissatisfied with the amount of Government grants which have been allocated for the city's major road works.

Speaking at a meeting of the Roads and Works Committee, he said that in recent years, grants for "only a few minor works" had been forthcoming. The works for which grants had been available, such as the Link Road and the road over Portsdown Hill, had been more of importance nationally than to the city.

It seemed that Portsmouth appeared to have received little consideration compared with other local authorities. Because of this he had written to the authorities of Plymouth, Southampton, Bristol, Norwich, Bath and Coventry, requesting information concerning the amounts they had received in grants.

"I feel very strongly about the fact that the only grants Portsmouth has received for its roads have been for the comparatively minor works in Elm Grove and King's Road," added Mr. Chamberlain.

CORBY CIVIC CENTRE DESIGN WINNERS

Corby Urban District Council's £1,000 award for the design of a new civic centre has been awarded to Enrico de Piero and Associates, 139a Kensington High Street, London, W.8.

Second prize of £750 goes to J. Peverley and P. Buckhurst, 17 Queen Anne Street, London, W.1. There was a tie for the third prize and the £500 award will be shared by Colclutt and Hamp, 86 Prince Albert Road, Regent's Park, London, N.W.8, and P. Dunham, Widdup and Harrison, 2 Union Street, Luton.

Obituary

It is with regret that *The Contract Journal* records the death of the following:

Mr. John Weller Sandford Fawcett, M.I.C.E., M.I.W.E., F.G.S., senior partner of Sandford Fawcett and Partners, civil engineers. Among the more notable schemes which he designed were sewerage and treatment works for the Colne Valley Sewerage Board and the treatment works for St. Helens Corporation. Mr. Fawcett made a number of visits to the United States, investigating modern treatment plants and processes in that country and was a founder partner of Canadian-British Engineering Consultants which was established in Canada in 1953 and which now has offices in Toronto, Ottawa and Halifax, Nova Scotia.

Mr. Harry Leslie Bache Lovatt, O.B.E., M.C., executive chairman of Wilson Lovatt and Sons, Ltd. He was 73. On the death of his father in 1932, Mr. Lovatt became chairman and joint managing director of the firm with his brother Ronald, and remained the company's chairman until his death. He was a vice-president of the Federation of Civil Engineering Contractors and took a prominent part in its formation. He was largely responsible for the growth of the company which, until 1952, was a private family firm.

Mr. Arthur Monk, aged 67, chairman and managing director of A. Monk and Co., Ltd., Padgate, near Warrington.

Captain J. H. Trye, C.B.E., R.N., chairman of Jee's Hartshill and Brick Co., Ltd., and director of Unaphalt (Granite), Ltd. Mr. A. H. Bonham, deputy borough engineer of Bridgwater.

Mr. Edward Sidebottom, aged 64, senior sales engineer of Atkinson's Agricultural Appliances, Ltd.

Mr. Harry Collings, aged 76, a partner in the architectural firm of McCarthy, Collings and Co., Coalville, Leics.

ONLY JCB CAN DIG ROCK

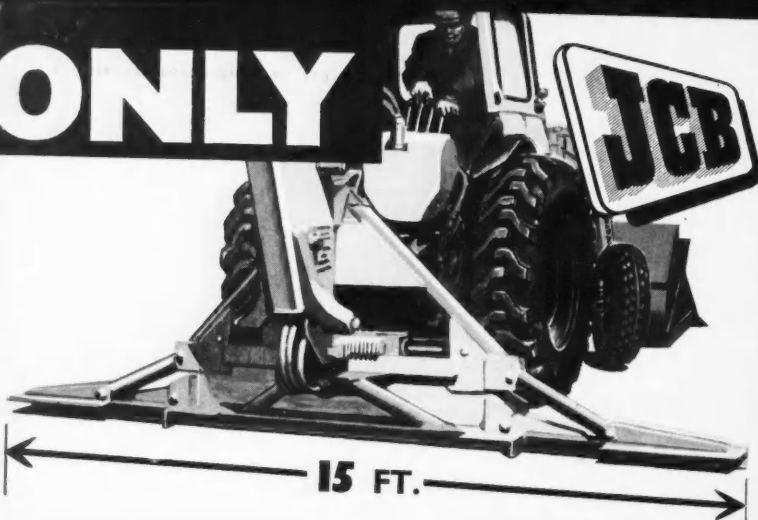
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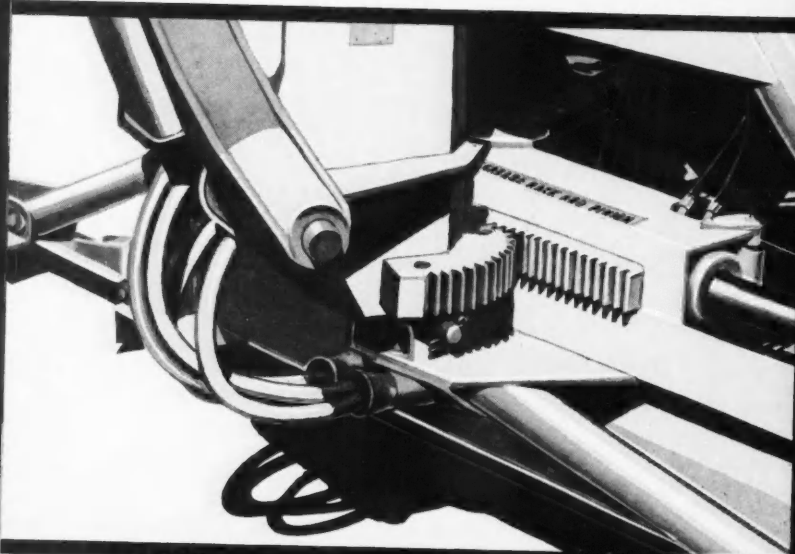
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HAS THESE FEATURES

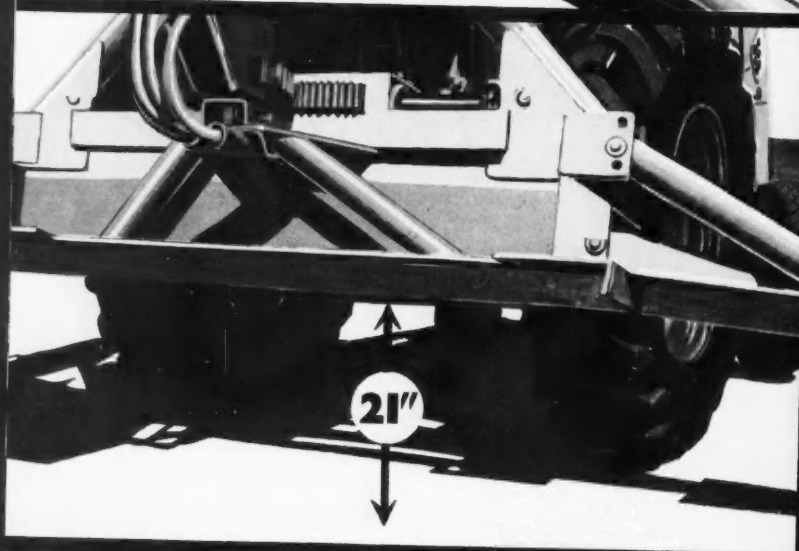
STABILITY

15 FT. WIDE ANCHOR



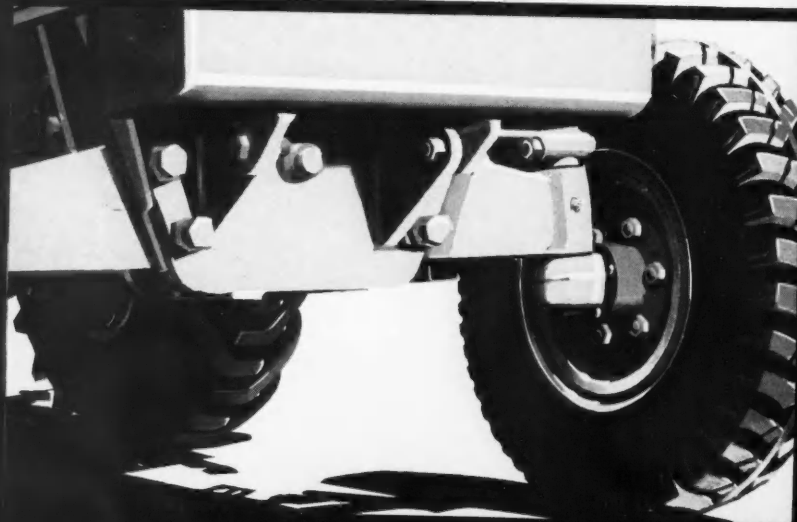
SLEWING

TROUBLE FREE OPERATION



**GROUND
CLEARANCE**

21" CLEARANCE



FRONT AXLE

TESTED TO 70 TONS

I. R. L. CERT. No. P. T. B. / 111 / 48 / F5890



John Sumner's Notebook . . .

SIR RICHARD COPPOCK, the General Secretary of the National Federation of Building Trades Employers, has recently written to the editor of *Iris News*, the monthly journal "for 100 per cent. democratic and informed trade unionism" published by Industrial Research and Information Services, informing him that a rumour concerning his retirement—mentioned in a previous issue—is without foundation.

Naturally, the editor of *Iris News*, a journal which is providing an invaluable service for Britain's trade unionists—if they did but know it—has been pleased to publish this denial and mentions Sir Richard's yeoman service to the trade union movement, his departure from which would prove a great loss.

Conjecture regarding Sir Richard's future is now coming to the boil. It has been in the process of so doing for five years or more but the conjecture has been entirely on the part of those outside the N.F.B.T.O. who have had little knowledge of the towering industrial and political strength of this gifted industrial administrator from Manchester. Within the ranks of the N.F.B.T.O. Sir Richard's pre-eminence is almost legendary. He has forgotten more than most of his colleagues know, and that isn't a pretty piece of phrasing so much as a fundamental truth.

The building industry, and by that I mean the whole industry—operatives and employers alike—can thank its lucky stars that in the eventful and turbulent period since before the first world war it has had in Sir Richard a labour leader who has been among the giants. He still is. And my guess is that he will remain so for a few more months to come.

If my calculations are anywhere near accurate, in 1961 Sir Richard will complete half a century as a trade union officer. This is a remarkable achievement in itself. If to it is added the fact that his life has been spent in serving an industry the size of building even the layman will begin to understand the contribution he has made to the community as a whole.

My first meeting with Sir Richard was 25 years ago when he sagely advised me not to worry too much about the day-to-day happenings in building but to concentrate attention upon the development of its industrial relations machinery. There, he reckoned, the most important advances were likely to take place. Events have proved the truth of his words, for by any standards the building operative—particularly the craftsman—is steadily improving his status and building's industrial relations policy has become an oft-quoted model for the rest of the world to follow.

Who will succeed Sir Richard when the time for his retirement comes? Two men stand out above the others. Harry Weaver, the president of the Amalgamated Union of Building Trade Workers, and Jim Mills, the president of the N.F.B.T.O. who hails from the Amalgamated Society of Woodworkers. They may well be pressed by George Lowthian, the general secretary of the A.U.B.T.W. Others doubtless fancy their chances.

Having gazed into the crystal thus far I would only add that when Sir Richard does retire he may do so in the sure knowledge that he has served his members and his industry more than well. And moreover—like many of his contemporaries in trade unionism generally—he has done so at a salary so low as to be virtually ludicrous when one takes into account the responsibilities he has shouldered.

IDRIS OWEN, who retired from the presidency of the Federation of Registered House-Builders last week, has achieved something during his year of office which the house-building industry has seen the need for over many years but has done very little about. I refer, of course, to the inauguration of a National Homes Week from March 25 to April 2. At the moment the public are ready for an event of this kind. The demand for new homes has never been greater and it will be good public relations on the part of the industry and the F.R.H.B. in particular to make a special effort during this week to let people know about the types of houses being put up and the value that is being offered for their money. I hope that the efforts being made by the house-builders with their houses will be matched by parallel efforts on the part of the manufacturers of house fittings and equipment. All manufacturers and distributors concerned with the construction and equipment of new houses should give their support to this venture for in a period when everybody from car makers to travel agencies and refrigerator agents are competing for the money in people's purses, the house-building industry and those connected with it should not deny themselves the opportunity this week presents to show what they have to offer.

E. R. Bowyer, the new president of the F.R.H.B., will have a busy week before him at the end of March but he can confidently approach it in the knowledge that it is based upon a sound and worthwhile idea.

LAST week I had the opportunity to be in the studio at Broadcasting House during the preparations for the broadcast of the Building Matters programme. A discussion group was going over the ground of its general approach to the question of under-floor heating, the producer, Robert Gunnell, was discussing with Charles Crichton, the compere, the introductions to the various items comprising the programme and William Bryant was checking the items to be included in his weekly news bulletin. What impressed me about these preparations and, indeed, about the subsequent broadcast was the obvious expertise of those principally engaged in devising these 30 minutes—in which seconds count—of broadcasting time each week. The B.B.C. has made a good choice, as I have said before, in appointing Robert Gunnell as producer for this programme and I doubt very much whether anyone in the industry could emulate the experience and background knowledge of Charles Crichton for a programme of this kind. Building Matters comes to an end in March but it has proved itself to be such a good thing for all sections of the industry that I hope, like many others, arrangements will soon be made for its continuance in the autumn.

THE figures issued so far suggest that unless unforeseen circumstances arose on building sites during the latter part of the year, 1959 should be a better year in relation to accidents. This is encouraging, but the number of building accidents is still so great that there can be no room for complacency. In fact, the figures show that nothing like enough effort is yet being made to make building operations safe.

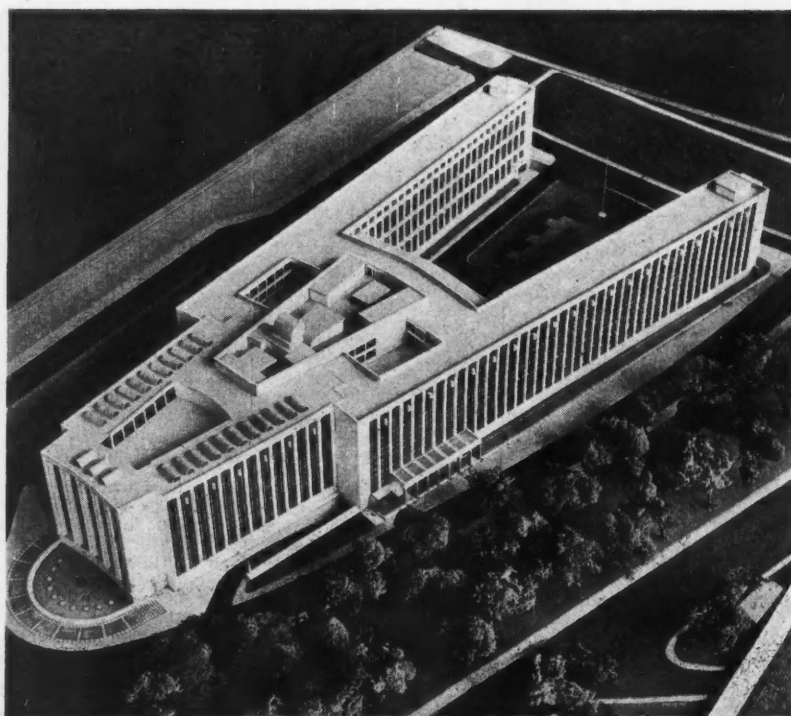
During his year of office as president of the National Federation of Building Trades Employers, Leonard Walden devoted a

great deal of energy to the task of carrying the safety message to all parts of the country. I am told that as a result of his efforts many became conscious for the first time of the need for action in this field. Later, Leonard Walden continued to guide accident policy through his chairmanship of the Federation's Safety Committee. The fruits of his wise counsel are now to be seen in the booklet just published giving guidance to building firms on how to organise for safety. It is the result of a great deal of careful and painstaking work as well as original thought and it would be a poor contractor who did not find time to study it. What I like about the book most is its basic assumption that whether a firm be a big one or a small one it cannot afford not to have a definite safety policy which is known and understood by all its personnel. If an operative working on a building site knows that the "guy'nor" is hot stuff on the safety regulations he knows that there will be hell to pay if those regulations are not applied and observed. The message of the booklet is therefore clear. Top management in building cannot contract out of its responsibilities for ensuring safety and the N.F.B.T.E. has done a good job in driving the lesson home so admirably.

FOLLOWING my note in a previous issue regarding the suggestion that the Consumer Advisory Council should consider investigating the quality of building materials and products I have had a letter from Elizabeth Gundry, the editor of *Shopper's Guide*, which is published by the Council, informing me that her journal has in fact reported on paints and other materials used in the building trade. I seem to remember a report on emulsion paints, but those on others seem to have escaped my notice. I am grateful to Elizabeth Gundry for letting me have this information but I cannot help feeling that it is just as important to publicise the results of these investigations as it is to carry them out. Several people in the industry to whom I have spoken have no knowledge that these investigations were carried out. I am not suggesting that this is Elizabeth Gundry's fault but it may be that the British Standards Institution, with which the Council is associated, could be of some assistance here.

Incidentally, the other consumer organisation, the Consumers' Association, Ltd., also publishes a journal, entitled *Which?* Perhaps Mr. Caspar Brook, the director of Consumers' Association, Ltd., might like to consider turning the attention of his organisation, whose membership is growing steadily, to investigations on the quality of various building materials. In putting this idea forward I am not overlooking their recent comprehensive report on electric drills. However, I repeat, the important thing is to publicise the results, when they are known, throughout the industry.

A RECENT editorial in this journal, commenting on the Kariba Hydro-electric project, concluded "When the complete story of this project comes to be written it will be found that this country can take pride in its contribution." The contribution already made by the United Kingdom civil engineering consultants was, I was most interested to note, acknowledged in the New Year Honours by the award of the C.M.G., to Mr. T. A. L. Paton for "services rendered concerning the construction of Kariba Dam." Mr. Paton is senior partner in the firm of Sir Alexander Gibb and Partners who together with the two French firms, A. Coyne and J. Bellier, and Societe Generale d'Exploitations Industrielles (Sogei) form the civil engineering (consultants) consortium for Kariba. This well-deserved honour will please his many friends and colleagues in the civil and structural engineering world.

International Construction

The illustrations show (top left) an aerial view of the A-shaped NATO building flanking the Bois de Boulogne at the Porte Dauphine, and (bottom left) a model of the building, in which the windows may be clearly seen, set horizontally on the one side and vertically on the other, with connecting panels of black plastic. A corridor (top right) shows ceiling lights and the perforated ceiling panels incorporated in the heating system, and (bottom right) the Council Assembly room for ministerial meetings, having a seating capacity of 550. Public sessions of the NATO Council as well as NATO ministerial meetings will take place around a large conference table in the shape of a trapezoid.

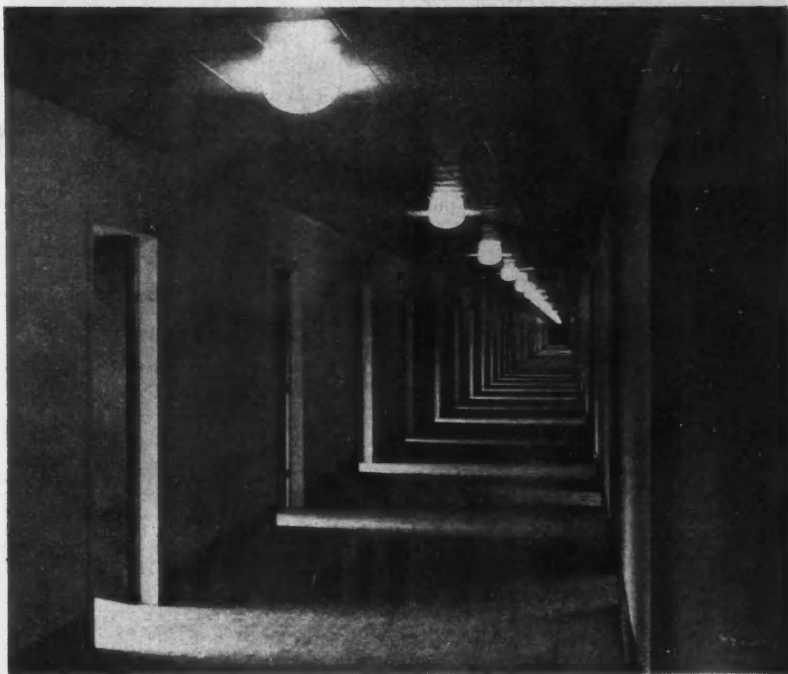
NATO HEADQUARTERS BUILDING COMPLETED IN PARIS

AFTER eight years' work, the permanent headquarters building for the North Atlantic Treaty Organisation has been completed, at the Porte Dauphine, Paris.

The actual site of the new building lies athwart the old city walls of Paris. This was discovered when the foundations for the present building, which are two floors deep, had to be excavated through the actual foundations of the walls.

Designed in the shape of a gigantic A, the entire building houses 1,000 offices, of which some 350 are occupied by the various national delegations. In effect, there are two self-contained buildings within the outer shell, one of which is accessible to the public. This houses a bank, post office, newspaper shop and fully equipped cinema, together with a large room for press conferences and an assembly room with a seating capacity of 550 where public sessions of the Council and also extra NATO lectures and congresses will take place. The other main section, which is not accessible to the public, contains the Council room, various committee rooms and staff offices.

Dimensions of the building consist of an overall length of 604ft., with a width over the wings of 299ft., tapering to 79ft. at the nose of the A. The width of each wing is 42ft. and the length of each, 278ft., the total height of the building being about 82ft. from ground-level. It is occupied by a ground floor and six floors above. Two basements, occupying the whole of the site, are also included, giving parking space for some 500 cars and 100 scooters and motor-bicycles, besides heating, ventilation plants, and ancillary services. The building also contains, besides the already-mentioned offices, four radio studios, two

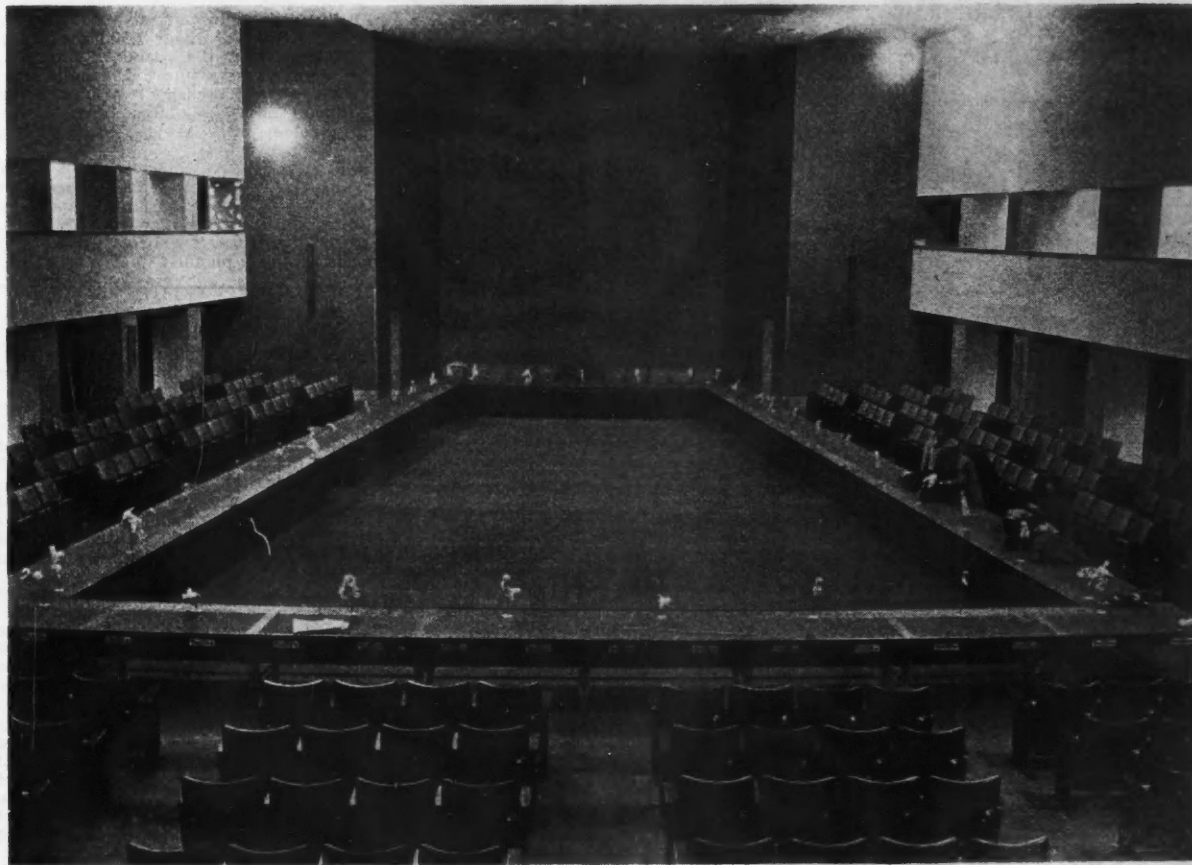


television studios, two bars, a large and small restaurant and cafeteria.

The infrastructure is of reinforced concrete and the superstructure steel-framed with a hollow tile and concrete flooring, having a brick exterior cladding faced with

"Longchant Rubanne," hard stone from the quarries on the borders of the Côte d'Or. Windows are of steel and aluminium. It is centrally heated by means of ceiling panels, and conference rooms, radio and

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International Construction

MOBILE DRILLING RIG COMMISSIONED IN THE PERSIAN GULF

THE "Seashell," the £1,800,000 mobile oil-drilling platform built for Shell as a more versatile successor to the one wrecked in a sudden storm three years ago off Qatar, in the Persian Gulf, was commissioned last week in Doha Bay, Qatar.

His Highness Sheikh Ali bin Abdulla Al Thani, the Ruler of Qatar, Mr. A. J. Miller, a director of the Shell Company of Qatar Ltd., and Mr. M. W. Godfrey, general manager, attended the ceremony, during which His Highness cut a tape to start the drilling machinery.

Two Dutch tugs towed the "Seashell" 6,400 miles to Doha Bay from Schiedam, Holland, where it was built. The trip took 75 days at an average speed of 3½ knots. Mostly the weather was good and the tugs could do four to five knots. But a head-on gale in the Red Sea cut this to one knot for a day or two and even halted progress altogether for a while. Apart from this the voyage was uneventful.

During the journey five men from the towing contractors were on board, plus two Shell engineers whose job was to maintain the platform machinery.

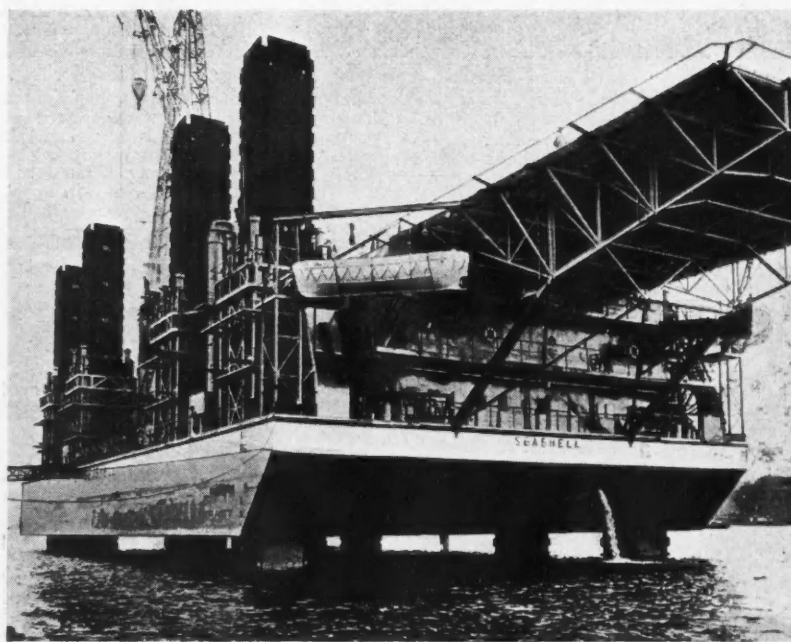
The 5,930-ton "Seashell" consists of a

pontoon 209ft. long, 105ft. wide, and 17ft. deep, with eight legs 218ft. long and 10ft. square. It has been designed to withstand gales of up to 100 miles an hour and waves 30ft. high, while working in water 100ft. deep.

The pontoon hull carries drilling machinery suitable for drilling to depths of 17,000ft. and ancillary servicing equipment, including a 75-ton completely mobile portal crane. There is a detachable helicopter deck which projects over the water and can be folded away before making long tows.

Before the storm wrecked the first platform, the rig had drilled two exploratory wells in Shell's marine concession off the shores of Qatar, the second being about 50 miles off the coast. Results were disappointing but Shell—which by that time had spent £7,500,000 on under-water exploration in the area—decided to try again at another location also about 50 miles off the coast.

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General view of "Sea-Shell"

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£1,850,000 NIGERIAN SHOPPING CENTRE

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The shopping centre, which will involve the redevelopment of a central four-acre site in the town, will include a 25-storey office block, department store, arcade, restaurant and club, and a swimming pool. It is part of a five-year development programme for West Africa proposed by the company at a cost of about £5m., and will itself take three years to complete.

The architects for the scheme are Nickson and Borys and Partners, Nigeria, in association with Borys Rigby Childs and Glover, 6 Welbeck Street, London, W.1, and the structural engineers are Oscar Faber and Partners, 4 Verulam Buildings, London, W.C.1. D. A. R. Rowland and Partners are the quantity surveyors, and the contractors are Cappa and D'Alberto, Ltd., Lagos.

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Cost of the development plan is likely to be about £10m. It provides for about 5,000 houses, together with shopping centres, civic buildings, hotels, banks, cinemas and theatres. An estate for light industry is also planned.

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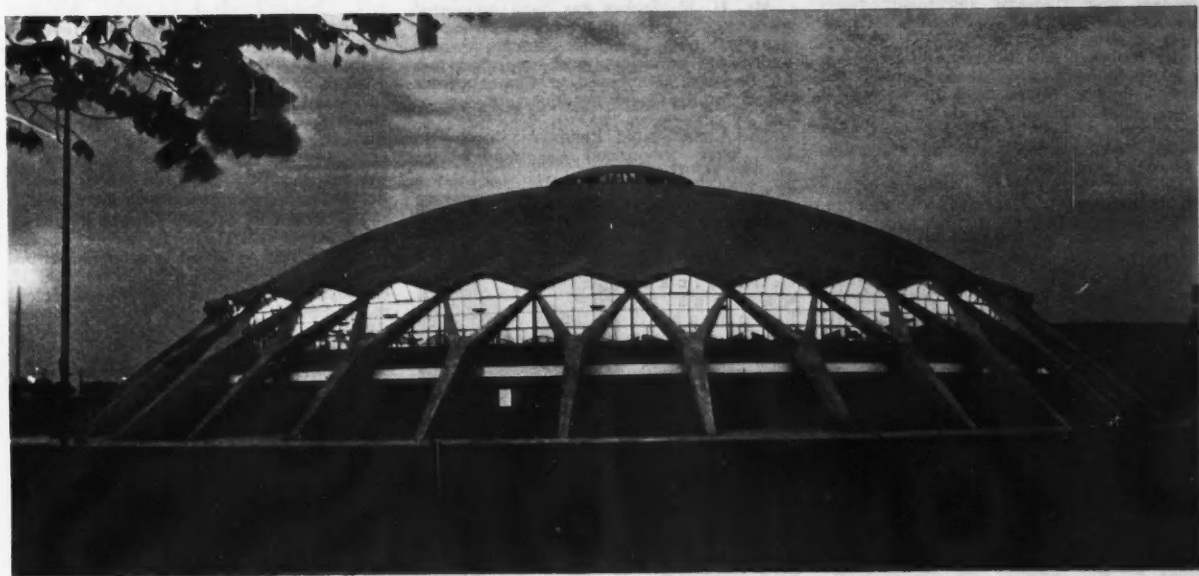
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International Construction

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AMONG the latest designs in concrete by Professor Pier Luigi Nervi, to whom this year's R.I.B.A. Royal Gold Medal for Architecture has been awarded (see Men and Movements), are those incorporated in the Flaminio Stadium and the Palazzetto dello Sport, two buildings erected in Rome in connection with the Olympic Games to be held there.

The photographs illustrate (top) the interior of the Palazzetto dello Sport, the dome of which is formed of 1,620 precast concrete units; an exterior view of the building (centre), showing the Y-shaped concrete supports; and (bottom) the grandstand of the Flaminio Stadium with its cantilevered concrete canopy.



International Construction

MOBILE DRILLING RIG COMMISSIONED IN THE PERSIAN GULF

THE "Seashell," the £1,800,000 mobile oil-drilling platform built for Shell as a more versatile successor to the one wrecked in a sudden storm three years ago off Qatar, in the Persian Gulf, was commissioned last week in Doha Bay, Qatar.

His Highness Sheikh Ali bin Abdulla Al Thani, the Ruler of Qatar, Mr. A. J. Miller, a director of the Shell Company of Qatar Ltd., and Mr. M. W. Godfrey, general manager, attended the ceremony, during which His Highness cut a tape to start the drilling machinery.

Two Dutch tugs towed the "Seashell" 6,400 miles to Doha Bay from Schiedam, Holland, where it was built. The trip took 75 days at an average speed of 3½ knots. Mostly the weather was good and the tugs could do four to five knots. But a head-on gale in the Red Sea cut this to one knot for a day or two and even halted progress altogether for a while. Apart from this the voyage was uneventful.

During the journey five men from the towing contractors were on board, plus two Shell engineers whose job was to maintain the platform machinery.

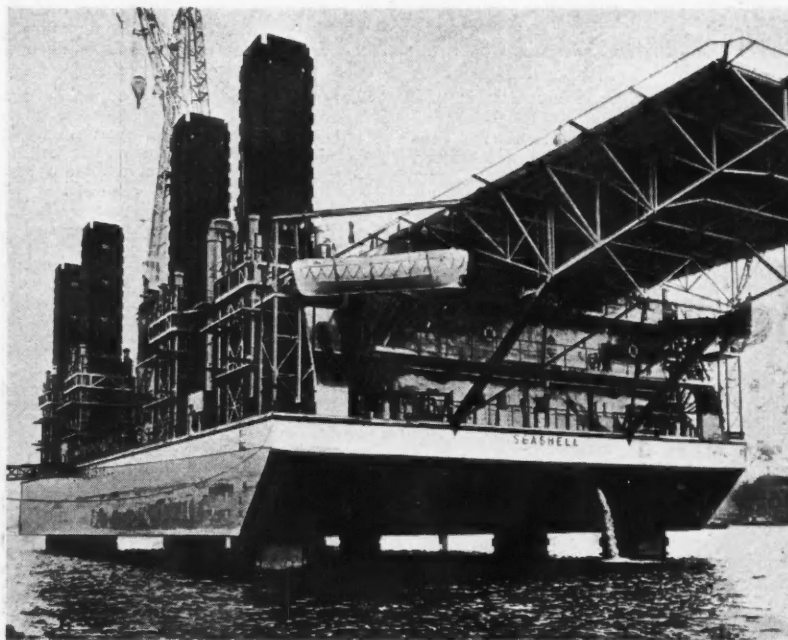
The 5,930-ton "Seashell" consists of a

pontoon 209ft. long, 105ft. wide, and 17ft. deep, with eight legs 218ft. long and 10ft. square. It has been designed to withstand gales of up to 100 miles an hour and waves 30ft. high, while working in water 100ft. deep.

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Men and Movements

ON the recommendation of the Royal Institute of British Architects, the Royal Gold Medal for Architecture for 1960 has been awarded to **Professor P. L. Nervi**, of Italy. Professor Nervi is Professor of the Technology and Technique of Construction, Faculty of Architecture, University of Rome. He has always been intensely interested in the potentialities of concrete and has used and developed this material extensively for his buildings. One of his earliest works in concrete was the Stadium in Florence, noted for its curved cantilever canopy and built in 1932, and in 1943 he experimented with ferro-cement which he used for roof units of the Turin Exhibition Hall. Since then he has been responsible for many reinforced concrete structures, such as warehouses, factories, bridges and stadiums. Professor Nervi collaborated with two architects in connection with the Paris UNESCO building, and he has also been concerned in association with other designers with the Pirelle Tower, Milan, and the Palazzetto dello Sport, Rome (see page 197). His honorary degrees and distinctions include Hon. F.A.I.A., 1956; Hon. Member, American Academy—Institute of Arts and Letters, 1957; and Foreign Member of the Royal Academy of Fine Arts, Stockholm, 1957.



P. L. NERVI

Mr. W. S. Richards has been appointed managing director of Brightside Heating and Engineering Co., Ltd., of which he has been a director for some years. **Mr. R. Ivor Slater** has resigned from the position of secretary of Brightside Engineering Holdings, Ltd., on his appointment as managing director of Moorwoods, Ltd., and **Mr. James R. Nuttall** has been appointed secretary of Brightside Engineering Holdings, Ltd.

The new chairman of Ransomes and Rapier, Ltd., is **Sir Peter Roberts**, the chairman of Newton Chambers and Co., Ltd. He succeeds **Col. R. P. W. Adeane**, who becomes vice-chairman.

Mr. A. J. W. Green, who recently became a director of Frederick Braby and Co., Ltd., has been appointed joint managing director of the company. He is a member of the board of Auto Diesels, Ltd., acquired by Frederick Braby and Co. last autumn.

Three directors of Derbyshire Stone, Ltd., have been appointed to the board of Baird and Tatlock (London), Ltd. They are **Mr. H. Fletcher**, **Mr. J. W. Hobday** and **Mr. G. Henderson**.

Mr. S. V. Hagdrup has retired from the board of the Tunnel Portland Cement Co., Ltd., on reaching retirement age.

Newly appointed directors of Tarmac, Ltd., are **Mr. G. C. H. Sangwin**, **Mr. R. W. Oates** and **Mr. S. W. Sangwin**.

Mr. H. Kerr has resigned his directorship with Woodall-Duckham Construction Co., Ltd., on reaching retirement age.

Mr. A. G. Waterman, a director of Phoenix Timber Co., Ltd., has resigned from the board.

Mr. W. F. Dines will join the board of Midland Tar Distillers, Ltd.

Consequent upon the formation of the J. I. Case Co., Ltd., the new subsidiary of J. I. Case Company, of U.S.A. (*The Contract Journal*, Jan. 7, 1960), a 12-man mission has left London Airport to attend a world convention in Miami. Heading the mission are **Mr. W. Muir Robb**, managing director of the British company, and **Mr. J. J. Hutchins**, executive vice-president of Case International and chairman of the British company. The mission will in particular study the parent company's latest wheel and crawler tractor line, and will participate in the debut of the first showing of the 1960 products which, in due course, will issue from U.K. on a major export programme.

Mr. Hartford M. King, sales director of Geo. W. King, Ltd., Stevenage, has been appointed managing director.

Following his retirement from the managing directorship of Ruston and Hornsby, Ltd., **Mr. Harold Riggall** has resigned from the chairmanship and the board of Davey, Paxman and Co., Ltd. **Sir Percy Sanders**, deputy chairman, has also resigned for health reasons, but will remain a director. The new chairman is **Mr. W. J. Ruston** and the deputy chairman, **Mr. V. R. Prehn**.

Mr. H. H. Stokes has been appointed manager of the Cementation group's supply department. The department, which undertakes purchasing and supply services for the group, is based at Cementation's Albert Embankment headquarters.

The Consolidated Pneumatic Tool Co., Ltd., have announced the appointment of **Mr. H. H. E. Georgel** as contracting division manager in succession to **Mr. H. H. Hicks**, who has relinquished the position after 30 years' service with the company. **Mr. Hicks** retains his connection with the company in a consultative capacity.



H. H. E. GEORDEL

The Eastern Region, British Railways, have announced the appointment of **Mr. J. Stacey**, formerly acting assistant stores superintendent, Eastern and North-Eastern Regions, as supplies officer in the department of the supplies and contracts manager, Eastern Region. This is a newly created position arising from the termination of the bi-regional control of the stores department and the setting up of separate supplies organisations in the Eastern and North-Eastern Regions, each under the control of a supplies and contracts manager.

Mr. F. Franks, managing director of the Furnival Steel Co., Ltd., Sheffield, will leave by sea on January 22 for a visit to the Argentine.

Mr. B. Rosen has been appointed managing director of Sandvik Swedish Steels, Ltd., Birmingham, as from February 1. He succeeds **Mr. Olof Grundberg**, who has been managing director of the company since 1947, and has left to take up another appointment.

London Transport have announced that **Mr. R. T. Gladwin** and **Mr. J. B. L. Hoban**, both senior executive assistants in the office of the new works engineer, Department of the Chief Civil Engineer, have been appointed principal new works assistants.

Mr. A. E. Gregg, Assoc.M.C.T., Assoc.I.E.E., has been appointed a director and general manager of Crompton Parkinson (Chelmsford), Ltd. **Mr. A. V. Sowman**, M.I.E.E., managing director, remains in that capacity. **Mr. Gregg** has been with the Crompton Parkinson Group since 1936, and for the past year has been general manager at the Group's Guiseley Works in Yorkshire.

Mr. A. E. Bates, M.I.E.E., will take up a new appointment as manager of the Edinburgh office of the English Electric Co., Ltd. He succeeds **Mr. W. M. Todd**, who was recently transferred from Edinburgh to manage the company's Bristol office. **Mr. Bates** joined the company in 1926 in the switchgear drawing office at Stafford.

MUNICIPAL

St. Helens B.C. have been recommended to appoint **Mr. G. P. James**, at present chief assistant engineer, as deputy borough engineer to succeed **Mr. E. K. Astin**, who has taken up the post of full-time water engineer.

The new borough engineer at Birkenhead is **Mr. Henry C. Oxburgh**, previously deputy city engineer at Salford.

FABIAN PAMPHLET CALLS FOR MORE NEW TOWNS

Overspill requirements of the future will assume enormous proportions warns a new pamphlet, "Restraining Urban Growth," written by **Mr. J. B. Cullingworth**, lecturer in social administration at Manchester University, and published by the Fabian Society.

The pamphlet suggests that what is needed to meet this problem is several developments of a new town character.

The Board of Trade's powers should be extended, it is stated. Its powers should be not merely to secure a proper distribution of industry, but expanded to cover all employment. In future all office development should be subject to development certificate control in the same way as industrial development is now.

Considerations should also be given, says the pamphlet, to the suggestion that a levy be imposed on industrial firms that elect to stay in areas designated as industrially overcrowded.

ZEBRA CROSSING DEVICE FOR DIMLY LIT STREETS

Zebra crossings in poorly lit streets are to be equipped with special lamps for spot-lighting pedestrians waiting on the kerb to cross the road.

Mr. Ernest Marples, Minister of Transport, has made Regulations requiring this to be done where the local authority responsible for the crossing is satisfied that the presence of a pedestrian at the beginning of the crossing, or on a central refuge, needs to be better indicated.

The new Regulations require, in such circumstances, the attachment of an electric lamp to the beacon pole just below the globe. Only the pavement and the first few feet of the crossing will be illuminated in this way. The lamp will be not less than 9ft. above the ground and turned away from oncoming vehicles so as not to dazzle drivers.

U.D.C. TO CONSIDER DIRECT LABOUR SCHEME

A suggestion that Aldridge Urban District Council should employ its own direct labour force to carry out building projects has been accepted for consideration by the council's housing committee.

PLANNING ENGINEER'S TASK DISCUSSED AT BUILDING ESTIMATORS' MEETING

THERE are few, if any, building contractors who can afford to run a planning department of a sufficient number of people to be able to prepare a programme for every job for which they tender," said Mr. W. F. Brookfield, planning engineer of Y. J. Lovell, Ltd., when he addressed the London Branch of the Institute of Building Estimators recently.

In his opinion the main difference between planning and estimating was that there was mystery about planning. The word in its application to the building industry covered a very wide field and all aspects of each job. It started when you decided if the invitation was one in which your company was interested. At that stage you were weighing up the possibilities and planning in relation to other commitments whether to go for it or not; so planning did not only involve planning engineers.

Specialist Job

"The preparation of a programme," he said, "has tended to become a specialist job and rightly so, as the continual practice makes one more efficient in the preparation and the accuracy of the forecast. The problem of becoming an expert is that the more specialist one becomes the greater the tendency to elaborate to the point where the programme becomes so complicated that it can only be understood by the person who prepared it and thereby defeats its own object.

"The programme is usually prepared in chart form and if it becomes too ambitious or complicated it loses its value because it is not understood by the people who have to put it into operation. After all, we are not just preparing something for general admiration, but a document the primary purpose of which is to assist the general foreman to carry out his work more efficiently. If he does not understand it, it becomes just so much wallpaper—and expensive wallpaper at that."

The speaker suggested that the architect should always state the time period. It made a common basis for all tenders. If a builder could, by superior organisation and methods, improve upon this time it was to his benefit, but the tenderers should start off by having at least one thing in common.

He thought that the estimator had sufficient on his hands in trying to weigh up his price in comparison with competitors without worrying about what time he must allow.

"Every job has to be assessed on its own merits and we have not yet reached the stage where we can say 'Ah! Yes. A five-storey R.C. framed job,' and go to a drawer and pull out a programme. What we try to do is to visualise the job section by section and then attempt to construct it on paper in a logical sequence of operations. All a programme is intended to be is a forecast of how a job should go based on our knowledge and experience of the building industry and the information obtained from the drawings and bills of quantities.

Forecasting

"My job is to forecast time and the estimator's job is to forecast cost based on all available information in respect of each unit of work. Unfortunately, in the majority of cases we start off with insufficient information. This is a major fault of the industry and one which must be overcome, for it stands to reason the more facts and information we can base our forecast on, the more accurate we are likely to be. We could not then excuse our mistakes on the grounds of not knowing.

"Having studied the bills and drawings

and gathered what information we can from site visits and experience of similar jobs, the next stage is to decide the sequence and method to be employed; this is usually arrived at in discussion with the construction people after we have laid the salient factors of the job before them.

"During this study of available information we are looking for the snags, the points of construction that will decide the sequence of work and in some cases the method.

"Generally each contract can be broken down into four main stages of work. These are very much as set out in the bills of quantities and are: Substructure; superstructure; internal and finishing trades; external works.

"These become the four main headings for the chart and the first problem to solve is to arrive at the proportion of time that can be allowed for each. This is mainly a matter of experience, but they can be arrived at from a simple chart form. Such charts are in effect programmes, but of much too broad a nature and of very little real value. The four major phases of the job are then broken down into measurable operations of work. In effect a separate programme is prepared for each phase and it is when preparing the more detailed phase programmes that one should be looking for the improvements that can be made on the overall contract period.

"Each main phase of the job has one or possibly more operations which will set the pace for all other work within that phase. In the substructure it could be the foundation brickwork.

"Having arrived at a programme for the substructure or other phase, all items in it should be checked to ensure that the time period is sufficient for the work or to see if it is possible to reduce the period by improving continuity.

Key Stage

"In the superstructure the key stage is usually the plastering," said Mr. Brookfield, "and it is important to decide when the plastering can commence. During the winter this will be when the lid is on and the part to be plastered is glazed. It is usually the same in summer because if the building is not glazed, hot drying winds can make the setting coats unworkable as well as causing shrinkage cracks and crazing."

Mr. Brookfield summarised the uses of the programme as:

1. To show what the job involves.
2. To record progress of the job.
3. To forecast valuations and thus assist budgeting.
4. Notifying nominated suppliers and sub-contractors when they are required.
5. To indicate in advance when detail drawings will be required.
6. To assist the buying department in the placing of their orders.
7. To indicate the amount and period of mechanical plant requirements.
8. To indicate the amount and period of non-mechanical plant requirements.

20-STOREY GLASGOW OFFICE BLOCK PLAN

A 20-storey office block built above a two-storey podium of shops and warehouses is planned on a site in Sauchiehall Street, Glasgow.

Application for planning permission to erect the building has been made on behalf of the promoters, Gula Investments, Ltd., 30-33 Minorities, London, E.C.3, whose consulting architect, is Sam Bunton, 7 Somerset Place, Glasgow.

Late Construction News

SCOTTISH HYDRO CONTRACTS.—The North of Scotland Hydro-Electric Board have placed contracts for the building of a power station at Loch Erich, 10 miles south of Dalwhinnie, and for the plant to be installed in the station. The contract for building the station and allied civil engineering work has been placed with A. A. Stuart and Son (Glasgow), Ltd. The plant, a 2,200-kW turbo-induction generator, will be supplied by Bruce Peebles and Co., Ltd., Edinburgh. The turbine will be manufactured by The Armfield Hydraulic Engineering Co., Ltd., as sub-contractors. The civil engineering consultants are Sir Alexander Gibb and Partners.

SOUTHWARK DWELLINGS.—Southwark B.C. have negotiated a contract with William Willett, Ltd., Sloane Square, London, S.W.1, for the erection of 90 dwellings, laundries, perambulator stores, nine garages, three shops and 28 market stores at Kingston Street site. The contract is subject to Ministry approval, and is worth about £204,223.

LIVERPOOL OFFICES.—A scheme for the erection of a new office block on the corner of Water Street and Drury Lane, Liverpool, for The Commercial Union Assurance Co., Ltd., is now out to tender. The building will cost about £200,000/£300,000. Plans are by Daniel Watney, Eiloart, Inman and Nunn, The Charterhouse, Charterhouse Square, London, E.C.1, and quantities by G. D. Walford and Partners, 7 St. James's Street, London, S.W.1. The consultants are R. Travers Morgan and Partners, 60 Aldermanbury, London, E.C.2, and K. W. Dale and Partners, 9a Sackville Street, London, W.1.

SEA DEFENCE WORKS.—A £128,763 contract has been placed with Lehan, Mackenzie and Shand, Ltd., Matlock, Derby, by Fleetwood B.C. for sea defence works. The project comprises the construction of groynes, aprons to sea walls, concrete decking and flood walls, macadam decking and roadways and drainage. Lewis and Duvivier, 122 Victoria Street, London, S.W.1, are the consulting engineers.

PORTSMOUTH HOUSING.—From six tenders received for the erection of 130 houses and 10 garages at Prospect Farm, Portsmouth City Council have been recommended to accept the lowest, at £177,496, submitted by Auriol (Builders), Ltd., Court Lane, Cosham, Portsmouth.

BIRMINGHAM COLLEGE BUILDING.—An 11-storey south wing is to be built at the College of Technology at Gosta Green, Birmingham, by Tersons, Ltd., 4 Dollis Park, London, N.3. Their £433,000 tender has been accepted, subject to Ministry approval, and work is expected to begin next week. Of reinforced concrete construction, the building has been designed by H. V. Ashley and Winton Newman, 3 Verulam Buildings, Grays Inn, London, W.C.1.

LONDON OFFICE BLOCK.—A further extension is to be added to St. Christopher House, the large block of offices now being built in Southwark Street, London, S.E.1, by Token Construction Co., Ltd., 68 Mount Street, London, W.1. They have been awarded a £445,000 contract to carry out the work. The scheme is promoted by South Street Property Investments, Ltd., whose architect is Morris de Metz, 29 Gloucester Place, London, W.1.

HOLBORN OFFICES.—Taylor Woodrow Construction, Ltd., are about to begin work on the site of the old Holborn Empire, London, W.C.1, where an eight-storey block of offices is to be built for Pearl Assurance Co., Ltd. Plans are by T. P. Bennett and Son, 43 Bloomsbury Square, London, W.C.1, and quantities by Mercer and Miller, 10 Manchester Square, London, W.C.1. The structural engineers are John F. Farquharson and Partners, 34 Queen Anne Street, London, W.1.

Talking of Safety

by

"DRAGEE"

"I SEE you've persuaded Andy to wear his safety helmet," said Mr. Phillips, the resident engineer. "How did you manage it?"

"A little pep talk and an object lesson in the form of a falling spanner did the trick. I asked him to hand out helmets to all the men working on the ground—that's a start anyway. I'm hoping that before very long it will be made compulsory for all our erection squad to wear safety helmets, on every site."

"I quite agree. No point in waiting until someone gets a cracked head before taking action. Now tell me—how serious is the risk in industry generally?"

"If you want the facts," I answered, "you'll have to wait until I get back to my office, but I can give you some round figures. According to the 1958 annual report of the Chief Inspector of Factories, there were about 14,500 persons injured by falling objects—those were reported accidents, where the injured persons were away from work for more than three days. In addition to that, more than 70 men were killed due to the same cause. On building jobs there were roughly 7,000 persons injured and nearly 30 killed through falls of materials."

"How do those figures compare with previous years?"

"As far as I remember, they were down on 10 years' average for all industries subject to the Factories Acts, and up on seven years' average in the building industry. On works of engineering construction there were something like 300 accidents of this kind. Now the point about these figures is this: by far the greater majority of these accidents must have caused head injuries, and although it is true that preventing the accident is better policy than preventing the injury, I am convinced that this is one of those unfortunate features of constructional work which can only be adequately guarded against by wearing protective equipment—in this case, safety helmets. Our own records have already established that."

"What is your opinion of the general attitude towards safety helmets?"

"I really don't think there is a general attitude; people's feelings about these things vary from job to job. When workers are recruited at a site where safety helmets are the rule rather than the exception there is no trouble at all. It is more difficult to introduce them suddenly on to a job. Usually, this will only happen after a bad accident. Again, there are wide differences in attitude according to age. This is born of habit, of course, and old habits die hard. I find we now get more response from the younger people—particularly those who have seen pictures of American workers. As you know, a great many of these men wear helmets and succeed in giving an impression of 'toughness'—which

is exactly the right kind of influence for youngsters. We can see a common illustration of this every day on the roads when we look at the young motor cyclists and scooter drivers. They have the excellent example of the professional riders."

"That's quite true. But I gather that not all helmets for road users are efficient."

"Unfortunately, several cheap brands have found their way on to the market which are quite unsuitable for their purpose, but thanks to the Road Traffic Act of 1956 these are gradually disappearing. There are, of course, British Standards for safety helmets designed for industry as well as the race track and the roadway. Industrial safety helmets are covered by two British Standards, No. 2095 for light duty helmets and No. 2826 for heavy duty helmets."

"What's the difference?"

"Well, the light duty type is one which is used most generally in building work, although both types apply to mining, quarrying, shipbuilding and structural engineering. The heavy duty helmet naturally provides better protection than the light duty article. One of the important features which both standards have brought out is the need for helmets to be water resistant, otherwise they are liable to absorb moisture and thereby lose their mechanical strength. Both standards deal with such matters as construction, materials and tests. The tests are for shock absorption, penetration, flammability and electrical resistance. However, as with many other kinds of safety equipment, comfort is a most important consideration. There is absolutely no point in designing accident-proof equipment if people are unable to wear it. Usually it involves a degree of compromise between an article which will safeguard the wearer against all injuries and a simpler one which is only required to withstand the heaviest blows. Another problem arises where the material for the shell is considered. It should not deflect until a heavy load is applied, but it should not be so brittle that it won't absorb energy."

"Quite a difficult choice."

"Yes, but fortunately several manufacturers are producing helmets which are both dependable and comfortable. This one of mine, for instance, is quite an old friend. It's already saved me from one or two nasty headaches."

"Thank you for the information. I'll have a better idea of what I'm talking about when I get to work on the boys outside."

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

SIMON-CARVES AWARDED £3½M. CONTRACT

SIMON-CARVES, LTD., have received from Richard Thomas and Baldwins, Ltd., a contract of approximately £3½m. for the coke ovens and by-product plant of the new hot strip mill to be built at the Spencer Works, Newport, Monmouthshire.

The plant will comprise 140 ovens capable of carbonising approximately 2,860 tons of dry coal per day, together with a by-product plant to recover tar and crude benzole and to produce sulphate of ammonia.

Work on the site is expected to begin soon. The first stage of the plant will be in production in September, 1961, and the remainder will go into production a month later.

GENERATING PLANT INSTALLED IN 1959

Over 2,250,000-h.p. of new electricity generating plant was installed by the Central Electricity Generating Board in 1959. The total additional electrical output capacity of this new plant was 1,670,000-kW.

Altogether 21 turbo-generators, with an aggregate installed capacity of 1,775,000-kW., and 23 boilers, with an aggregate evaporative capacity of 14,700,000lb. of steam per hour, were installed in 15 power stations belonging to the Generating Board in England and Wales, five of which were new stations.

Of the generating units, the first of a number of 200,000-kW. units (installed capacity) planned for commissioning in the next few years was brought into service at High Marnham power station on the river Trent. This is the largest unit yet installed by the Board, and has a greater output capacity than any other unit operating in Western Europe. The associated boiler has an output capacity of 1,400,000lb. of steam per hour and the turbine stop valve conditions are 2,300lb. per sq. in. at 1,050 degrees F. Reheating is provided to 1,000 degrees F. after partial expansion of the steam through the turbine.

M.W.B. MAINLAYING

The total length of new mains laid for the Metropolitan Water Board during the year ended March 31, 1959, was 41.72 miles, of which 28.94 miles or 69.37 per cent. were of 4in. diameter and 5.62 miles or 13.46 per cent. of 6in. Most of the remainder were of 8in., 12in. and 30in. diameter.

At the end of the year the total length of mains existing was 8,819 miles, the net increase in length during the year, after allowing for mains left dead or removed, being 23.79 miles.

The mains range in size from 2in. to 89in. in diameter but consist chiefly of diameters between 3in. and 12in. notably of 4in. of which there were 4,490.43 miles or nearly 51 per cent. of the total length of all mains.

FOR THE DIARY

Jan. 20.

Institute of Builders' lecture, at R.I.B.A., 66 Portland Place, W.1, 6.30 p.m. G. B. A. Williams, F.R.I.B.A., on "Methods of Restoring Ancient and Historic Buildings."

Meeting of the London Building and Engineering Contractors Accident Prevention Group at 97 Horseferry Road, London, S.W.1, 2.30 p.m. "How Management and the Group Can Assist Each Other."

Jan. 20-21.

Merseyside Building Safety Training Centre.

Stopgate Lane, Liverpool, 9. General building safety training course.

Jan. 28.

Yerbury Foundation Lecture at the T.U.C. Hall, Great Russell Street, W.C., 6.30 p.m. "The Relation between Design and Speed of Building." An American architect and a British builder will speak.

Feb. 5.

Meeting of the Institution of Highway Engineers at 11 Upper Belgrave Street, London, S.W.1, 5.30 p.m. Paper: "Some Modern

Developments in Highway Bridge Design." by C. S. Chettow, B.Sc., M.I.C.E.

Annual dinner and dance of the Contractors Mechanical Plant Engineers (Midlands Branch) at the Chesford Grange Hotel, Kenilworth.

Feb. 17.

Meeting of the Reinforced Concrete Association at 11 Upper Belgrave Street, London, S.W.1, 6 p.m. "Lightweight Concrete Aggregates," by Prof. R. H. Evans, C.B.E., D.Sc., Ph.D., M.I.C.E., M.I.Mech.E., M.I.Struct.E. Meeting of the London Building and Engineering Contractors Accident Prevention Group at 97 Horseferry Road, London, S.W.1, 2.30 p.m. "Erection and Dismantling of Heavy Plant and Equipment."

ROADS: MUNICIPAL ENGINEERS' SUGGESTIONS FOR IMPROVEMENTS

FOLLOWING the statement in the House of Lords by Lord Chesham inviting suggestions concerning highway and traffic problems, the Council of the Institution of Municipal Engineers have addressed a letter to the Minister of Transport putting forward a number of suggestions in relation to Lord Chesham's remarks.

The following main points of the letter are published in the January issue of the *Journal of the Institution of Municipal Engineers*.

(a) The Institution appreciates the progress already made in connection with the provision of motorways and welcomes the reports in the Press on what the Government intends to do in the future including the promise of a reduction in procedural delay in land acquisition.

Increase Funds

(b) The Local Authority Associations and the Institution of Municipal Engineers have made many representations in recent times for an increased allocation of highway funds. In this regard the Council wished to make reference to the discussion arising out of the Paper by Sir Herbert Manzoni on "Urban Traffic Congestion" at Torquay in June last at the Annual Meeting of the Institution. During the discussion it was suggested by a County Alderman to his colleagues, the elected representatives present at the Conference, of whom there must have been something of the order of 1,000, that on their return to their respective authorities they should use their best endeavours to persuade their authorities to adopt a resolution on the general lines that highway expenditure be stepped up to a scale limited only by the nation's resources to undertake it. On adoption it was further suggested that these resolutions be forwarded to the appropriate Local Authority Association. It is understood that the Local Authority Associations concerned have recently had an opportunity of considering these resolutions and they propose getting in touch with the Minister accordingly. The Council of this Institution were quite confident that these representations would be regarded as favourably as they possibly could be, as it must be agreed that it is only by embarking on a much enlarged programme in relation to motorways and major improvements in urban and rural areas alike that any significant impact can be made on the mounting volume of casualties and congestion on the roads of the country.

Grants: Need for Pre-planning

(c) Highway authorities should look for at least three years ahead the *minimum*

grants they would receive for highway improvements. The Institution feels that this pre-planning is one of the most important principles in solving the present highway problem and that it is essential for highway authorities when considering schemes to know how they can be programmed in the light of the financial position. An investigation should be made with the Treasury into the present policy on which highway grants are allocated. It is understood that where monies allocated for maintenance and minor improvement work in a particular year are only partly expended, the balance cannot be carried forward and added to the following year's vote. The difficulty in accountancy is appreciated, but it is considered that this should not hinder policy.

(d) The present division of major improvement grants into separate pockets is to be deprecated. Many engineers have schemes prepared which cannot be carried out because they are either above or below the various categories of expenditure which have been laid down. It appears that these various categories are rigid and that when all the money has been allocated in one category, then no more schemes can be approved in it, whereas others perhaps of the lower priority are approved because they come into another category in which money is available.

(e) Car parking, particularly in the large cities, has become almost as great a problem as that of road and bridge improvement. It is suggested that the Ministry should explore the possibility of including the provision of car parking areas in a highway programme with appropriate grants.

Public Utilities Problem

(f) The Council of the Institution have felt for some considerable time past that consideration should be given at the earliest possible opportunity to amending the Public Utilities Street Works Act, 1950. The Council are much concerned at the cost of altering the line and level of underground statutory equipment when carrying out major highway schemes, all of these costs normally falling on the highway authority and which, in built-up areas, all too often form a disproportionate percentage of the cost of the scheme as a whole. The primary function of the highway is for the free passage of the Queen's subjects, and while it is appreciated that statutory authorities have a legal right to lay and maintain their mains, cables, etc., in public highways it is urged that there is a great deal to be said for the amendment of the Act so as to provide for a more equitable sharing of the cost of dealing with such equipment, and particularly underground equipment.

SEVEN-STOREY HIGH HOLBORN BUILDING EXTENSIONS

WORK is due to begin next month on the erection of a seven-storey extension to the head office of the Pearl Assurance Co., Ltd., at High Holborn, London, W.C.1.

The building will match the existing office block, involving front elevation in ornamental granite and Portland stone, and a rear elevation of brick covered with Vitrolite facings. To provide access to the site a temporary road, 14ft. wide, will be constructed across the pavement by the Holborn B.C. Main storage will be on a heavy gantry extending 8ft. from the building line to the front.

Construction will be steel framed, encased in concrete, with hollow tile floors.

The half mansard roof will take in the sixth and seventh floors with an asphalt flat and roof lights, and roof slopes will be covered with slate. Dormer windows and turrets are to be covered with lead.

The architects are Ernest Bates and William G. Sinning, 89 Chancery Lane, W.C.2, and the consulting engineers John F. Farquharson and Partners, 34 Queen Anne Street, London, W.1. Northcroft, Neighbour and Nicholson, Victoria House, Southampton Row, London, W.C.1, are the quantity surveyors, and the contractors are Holland & Hannen and Cubitts (Great Britain), Ltd., 1 Queen Anne's Gate, London, S.W.1. The cost is estimated at £440,000.

BRISTOL'S SMALLEST OUTPUT OF NEW MUNICIPAL HOUSES

THE repercussions arising from the severe cut in financial expenditure reached their maximum in the year under review, resulting in the smallest output of new municipal dwellings in the city in any financial year since 1945, and the same factors reduced the output of new dwellings for overspill to the lowest since the development started," states Mr. J. B. Abbey, Bristol housing manager, in his recently published annual report for 1958-59.

He says that the number of dwellings produced by private enterprise inside the city boundary also showed a reduction on the figures of the previous two years, but there appears to have been more evidence of private enterprise building on the outskirts of the city. Nineteen sites in the ownership of the council with a capacity of 134 dwellings were approved for leasing for private building.

The total number of families rehoused in more satisfactory accommodation dropped to 3,475, but whereas the number of families rehoused in new municipal accommodation, inside and outside the city, dropped to 552, the number accommodated in relet dwellings rose to 1,266, whilst 995 families benefited through transfer and 662 by exchanges into more suitable accommodation. There is some indication that the production of small dwellings by private enterprise is encouraging some tenants to purchase their own homes.

Barton House, the first 15-storey block of dwellings and the highest to be completed outside the Metropolitan Area, was opened on June 23, 1958. After nine months' experience during the summer and winter of the year it would appear that the vast majority of tenants are satisfied with their new homes.

To date 2,315 families from unfit dwellings have been rehoused, or have found their own accommodation, 1,158 families still in dwellings covered by operative orders remain to be rehoused and 2,059 families remain in dwellings represented as unfit, but where the orders made are not yet operative. Only 49 houses remained under requisition at the end of the year, 85 having been released to the owners or acquired by the Corporation.

TIME OPPORTUNE?

Comments the current issue of *The Operative Builder*, journal of the National Federation of Building Trades Operatives:

"Judging by present building activity and trends our industry is likely to be busy for a long time to come. So now is the time for a little bit of sensible planning—in the non-technical sense; planning in the field of organisation, so that the second half of the 20th century may witness the introduction and the consummation of the 40-hour week as a maximum, and the initiation of a 32- or 36-hour working week. The Government declares the possibility, indeed the probability, of doubling our standard of living in 25 years. So let's make this hope or thought more than a pious resolution or an unrealistic forecast.

"The time is not opportune now, generally say employers. We should welcome guidance as to when it is opportune."

£11½M. SCHEME TO TAP GREAT OUSE

The Mid-Northamptonshire Water Board have decided to share in an £11½m. scheme to obtain 40 million gallons a day by developing the resources of the River Great Ouse. A committee has been formed to deal with the promotion of a Parliamentary Bill.

Talks will now be held with the Bedfordshire County Council and the Luton Water Company.

Trade Section

FIRST TWO NEW DODGE DUMPERS IN ACTION

NOW operating in the Denham gravel pit of W. W. Drinkwater (Willesden), Ltd., are the first two new heavy-duty dumper trucks to be delivered from the Kew factory of Dodge Bros. (Britain), Ltd.

Designed primarily for off-the-road work, the new dumper is also suitable for high-way operation. The G.V.W. is 28,000lb. and outstanding features include an "L" type reinforced frame with five cross-members and an overall depth of 11½ in., 10.00-20 12-ply tyres on B7.0-20 three-piece wheels and large capacity dual rate springs fitted with telescopic hydraulic shock absorbers in front and six-leaf helpers at the rear.

Three proven diesel power units are available. The 340 cu. in. and 351 cu. in. engines transmit their drive through a hydraulically operated clutch of 13 in. diameter, whilst a 375 cu. in. unit has a 14 in. diameter clutch.

Steering is power assisted and the two-

leading-shoe brakes have an air over hydraulic system. The forward control cab is four-point rubber mounted on a sub-frame. The dumpers operated by Drinkwaters at Denham are fitted with a link type of tip gear and 6 cu. yd. body by Telehoist, Ltd. Other makes of tip gear and bodywork can be accommodated.



One of the dumper trucks at Denham gravel pit

BRITISH STANDARDS

B.S. Handbook No. 4: Lifting Tackle

This revised edition of B.S.I.'s Handbook No. 4 (Part 1) will be welcomed by all whose work calls for an authoritative and up-to-date reference source on the subject of lifting tackle. Prepared by Mr. L. Linder, M.I.Mech.E., one of Britain's foremost lifting tackle experts, the publication is the first of two parts. Part 2 (Chains and Fittings) is expected to be published shortly.

Part 1 deals with the material contained in Sections 1, 2, 3 and 7 of the first edition. Each of the standards it contains has been reproduced in full and (except for that on capping metal) revised.

The two basic standards are those for natural fibre ropes (B.S. 2052) and for engineering wire ropes (B.S.s 302 and 621, combined). Complementary to these are standards for steel wire for ropes (B.S. 2763) and for testing the coating of galvanised wires (B.S. 443).

The standards for terminal attachments in the Handbook are: B.S. 461-464 (Bordeaux connections, bulldog grips, sockets and thimbles, respectively) and B.S. 716 (Rigging and stretching screws). Other standards deal with galvanising tests (B.S. 729), capping metal (B.S. 643) and wire rope slings (B.S. 1290).

The new publication contains nearly 100 pages of revised and extended editorial notes. Among the subjects dealt with are: Factors of safety, types and constructions of wire ropes, the use and examination of rope, terminal splicing and co-efficients for estimating rope tensions in pulley systems. The historical aspect has also been briefly indicated.

Nearly 50 pages of the Handbook are devoted to Statutory requirements, and

every care has been taken to ensure that they are as up to date as possible. The Regulations summarised relate to: Factories, Docks, Shipbuilding and Building. Price 30s.

Supplement No. 1 (1959) to B.S. 4A (1934) T-bars

The primary object of this supplement is to specify Universal T-bars cut from the Universal beams and column sections published in B.S. 4B.

When this supplement and B.S. 4B were prepared it was felt advisable to incorporate in them requirements for the broad flange beams and the T-bars previously specified in B.S. 2566. Hence the supplement deals also with heavy flange T-bars and the long legged T-bars (now called long-stalk T-bars) originally covered in B.S. 2566, which is now withdrawn.

A new method of designating the various sections has been adopted. Previously, British Standard sections were designated by letters and numbers which were quite arbitrary, but experience has shown that this method is rarely used in industry, the sections usually being designated by their leading dimensions. It was therefore decided to follow the common practice, and a section is now designated by its nominal size in inches and its weight per foot in pounds. The supplement specifies not only the dimensions of the sections, but also properties such as moments of inertia, radii of gyration, elastic moduli and plastic moduli. Price 5s.

Copies of these British Standards may be obtained from the British Standards Institution, Sales Branch, 2 Park Street, London, W.1.

HYMATIC INTRODUCE NEW COMPRESSOR

ANOTHER mobile electrically powered air compressor is announced by The Hymatic Engineering Co., Ltd., Redditch, Worcs.

Known as the 45E90, it has a displacement of 45 c.f.m. and a working pressure of 90 p.s.i., compared with the 40 c.f.m. and 85 p.s.i. of the 40E85 model which it replaces. The chassis too is completely redesigned for ease of handling and to reduce overall dimensions.

Large diameter pneumatic tyred wheels are used for ease of movement over rough or soft ground. The 45E90 can be wheeled through a standard doorway or transported in a builder's hoist. Weight is 650lb., length 62 in., width 28 in. and height 37 in.

The compressor unit is a Hymatic-Hydrovane oil-sealed rotary directly driven by a 10-h.p. three-phase electric motor with Star-delta starter. Built-in equipment includes air intake filter, automatic pressure control, pressure gauge and safety valve.

The price of the 45E90 in the United Kingdom will be £326.

NEW RANGE OF ELECTRIC MOTORS

A new range of totally enclosed fan-cooled motors which are smaller, lighter and cheaper than existing motors of the same type has been announced by English Electric. The dimensions of the new motor are exactly the same as the "C" type ventilated motor (British Standard 2960) and the two types are, therefore, interchangeable.

The new motors, called type "D," have outputs up to 100 per cent. greater than existing motors of the same size, type "B." For example, a 40-h.p. "D" type motor is now manufactured in the same frame size as the previous 20-h.p. "B" type.

This is the first major advance in totally enclosed fan-cooled motors since 1952 when English Electric pioneered the first British motor with standard dimensions, the "B" type, it is stated. The greater outputs have been achieved by allowing for a temperature rise of 65°C. above 40°C. instead of the existing 55°C. This results from the use of class "E" insulation instead of class "A."

These new motors are designed for wide industrial application, particularly where there is dust and dirt in the atmosphere.

ROAD-MARSHALL ROLLERS WITH HYDROSTATIC TRANSMISSION

Following a thorough trial on all classes of work of the pre-production Road-Marshall with Dowty hydrostatic transmission, a firm of road roller hiring contractors, W. T. Palmer and Co., (Leicester), Ltd., have decided to add rollers of this type to their fleet.

Two of these rollers were formally handed over recently to Mr. E. Watson Rodger, director of Palmers, and Mr. G. B. Gibson, general manager, by Mr. Edward Burgess, managing director of Marshalls, at Britannia Works, Gainsborough.

AN AMALGAMATION

It is announced that Oil Road Rollers, Ltd., and W. T. Palmer and Co. (Leicester), Ltd., have amalgamated and as from January 1, 1960, are now known as Road Rollers, Ltd., with head offices at 928 Melton Road, Thurleston, Leicester, and depots at Birmingham, Leeds, Leicester and St. Helens.

Mr. G. B. Gibson, who has been general manager of the two companies since March last, is general manager of the new company. Mr. F. W. Cripps is manager of the Birmingham depot, and Mr. W. H. Haigh, manager of both Leeds and St. Helens depots.

Trade Section

INTERNATIONAL TD-25 TRACTOR INTRODUCED TO WORLD MARKET

THE most powerful crawler to be produced by International Harvester, the TD-25, is now available for export. Announcing this in Chicago recently, the International Harvester Export Company stated that the unit has been designed for major earthmoving, logging, pipeline laying, and mining operations.

which has a drawbar pull up to 70,000lb. at $\frac{1}{2}$ m.p.h., with adequate weight and traction. Operating weight is 46,000lb.

The gear-drive model, with an operating weight of 45,500lb., has a 46,700lb. drawbar pull in first gear at rated governed speed. It has eight speeds forward and eight reverse.

Heavier, reinforced track frames have been designed for the tractor. A new,

Heart of the TD-25's operating efficiency is IH's exclusive Planet-Power system, it is stated, which permits turning with controlled power on both tracks, with effortless, finger-tip steering. This eliminates power-wasting, "dead-track drag" in turns, permitting the fully-loaded tractor to turn smoothly, under positive control, whether working upgrade, downgrade or on the level.

Planet-Power also provides instant power shifting from one speed range to the next, as well as one-hand hydraulic braking of the tractor.

The rear main frame is a one-piece, all-steel weldment, which is stress relieved and then line bored.

The front engine support is built up from four pieces of steel plate, which are box sectioned and seam welded throughout their entire length.

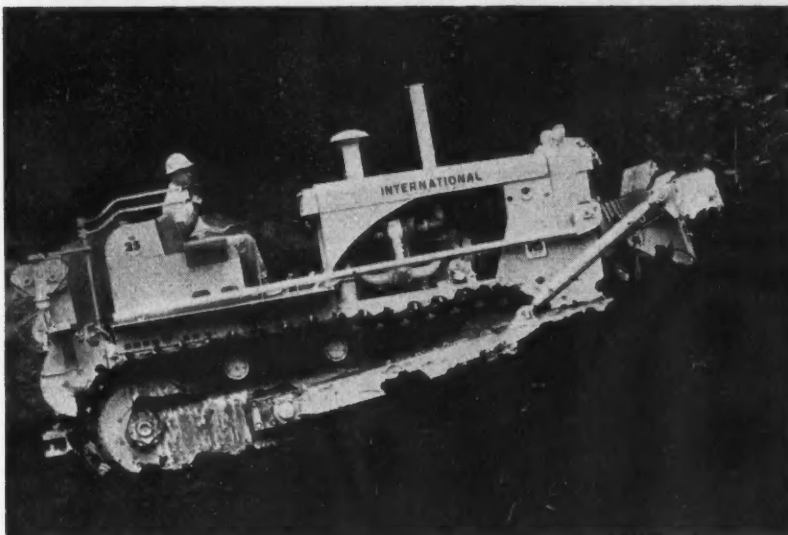
Cooling System

Features of the tractor's cooling system are a 24-gallon, one-piece radiator, with 11.5 sq. ft. of frontal area, mounted on four rubber pads; gear-driven fan; gear-driven externally mounted water pump and an oil cooler.

Additional engine cooling is accomplished through spraying the underside of the pistons with $1\frac{1}{2}$ gallons of oil a minute when the engine is running. A separate heat exchanger on torque converter models is used for stabilizing torque converter temperatures. Fuel capacity is 135 gallons.

A 14in., dry-type air cleaner, horizontally mounted, efficiently filters out dirt to the extent that 99.9 per cent. clean air reaches the engine.

With standard 24in. track shoes, the crawler is 104in. wide. Its overall length is 196 $\frac{1}{2}$ in. Area of ground contact with 24in. shoes is 5,652 sq. in. A complete line of control units, hydraulic or cable controlled blades, and pusher plates is available.



TD-25 equipped with a model 260 rear cable control unit and a Model D-3 front cable controlled bulldozer blade

The new TD-25 is available in either a torque converter or gear-drive version. Both models are powered by International's DT-817 turbocharged engine—a six-cylinder, four-cycle, direct-starting engine developing 230 net horsepower at the fly-wheel at 1,500 r.p.m.

Four speeds forward and four reverse are offered by the torque converter TD-25,

heavy-duty radiator guard is standard equipment.

Large-reservoir track rollers (Dura-rollers) have cartridge-type seals. These rollers combine heavy-duty bushing design, drilled pressure-relief passages and metal-to-metal faced seals, giving a highly durable roller requiring lubrication only at 1,000-hour intervals.

TIMBER-FRAMED FLEXIBLE SWING DOOR

A new flexible swing door, known as the "Manby," has been announced by Mancuna Engineering, Ltd., Denton, Manchester. The door has a timber frame generally in mahogany or oak, and timber window frames. Resin laminate rubber panels provide flexibility and strength, and yet sufficient rigidity to prevent distortion.

Double action helical type hinges provide for 180 degrees opening and the light weight of the door allows finger-tip control.

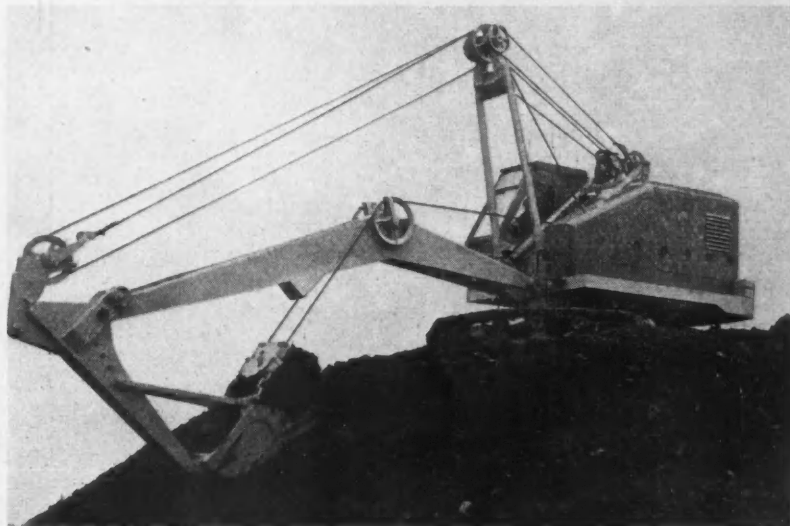
NEW SELF-PRIMING PUMP

The Pep-Loewe range of centrifugal pumps has been increased by the addition of a new vertical self priming unit, the VRL.225, which occupies less than 1 sq. ft.

Designed for general purpose pumping duties, the unit is said to be suitable for handling clear or cloudy liquids up to 220°F., fuel and diesel oils and other oils up to 450seconds Redwood No.1. Due to its self priming characteristics it can be used to handle volatile liquids. The capacities and heads available are 70 g.p.h. at 100ft. of liquid and 400 g.p.h. at 25ft.

The VRL.225 incorporates several new features. The casing is designed so that if the foot valve on the suction line should be inoperative the pump will continue to work. The impeller is specially shaped and is fitted with very short blades to prevent breakage or bending, and is also fixed so that it is not in contact at any point with the casing. The pump and motor shafts are rigidly coupled by a new type of special split coupling.

The unit is normally fitted with a 1-h.p. three phase motor, but if required, either single phase A.C. or D.C. motors can be fitted. Further details may be obtained from Precision Electrical Products (Stockport), Ltd., Lytham Street, Cale Green, Stockport.



Prototype of the new Priestman Lion excavator with dragshovel at work on open excavation. This 4yd. excavator, which has been subjected to continuous severe testing at every stage of its development, is fully air-controlled, embodies the Priestman patented cross-roll bearing slew ring and has all gears fully enclosed and pump-lubricated

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

A. C. M. Wilkes, Ltd., roofing materials. £100. Directors: Arthur C. M. Wilkes and Mrs. Ellen J. Wilkes, 40 Naylor Road, Peckham, S.E.15.

Astra Building and Engineering Co., Ltd., 31 Winkley Square, Preston. £1,000. Directors: Tadeja M. Kojic, 79 Victoria Road, Fulwood, Preston (permanent governing director); Dusan Miletic, 217 Barlow Road, Levenshulme, Manchester.

Beeston Constructional Engineers, Ltd., Arch 7, Bath Road, Leeds, 11. £100. Directors: David M. Wilson and Mrs. Phyllis M. Wilson, 12 Acre Square, Leeds, 10.

C. Piper, Ltd., builders. £2,000. Directors: Charles E. A. Piper (permanent), Alice N. Piper and Pauline Piper, all of Highview, Arundel Drive East, Saltdan, Brighton.

Arthur Day (Builders), Ltd. £1,000. Directors: Arthur W. Day (chairman) and Mrs. Doris E. V. Day, 43 Beaumont Avenue, St. Albans, Herts.

Trembrook Builders, Ltd., 6/8 Sherborne Road, Newton Abbot, Devon. £100. Directors to be appointed by subscribers. Subscribers: John S. Furber (accountant) and Arthur F. Warren (accountant), 6/8 Sherborne Road, Newton Abbot, Devon.

Wimpole Plant, Ltd., 61 St. Peters Street, Bedford, public works contractors. £1,000. Directors: Ernest C. Smith, Rosedene, High Street, Wrestlingworth, Beds.; Bernard E. Day, Flint Hall Farm, London Road, Royston, Herts.

E. Millard Builders, Ltd. £500. Directors: Edmund F. G. Millard (managing director) and Mrs. Gladys Millard, 65 Mount Pleasant Lane, Watford, Herts.

Trusteel Developments (Western Counties), Ltd., builders. £1,000. Directors: Wm. J. Sewell, 1 St. Edmunds Drive, Stanmore; Arthur E. Finch, George J. Sell and Wm. D. Welch, addresses not stated. Subscriber: Charles ff. Denning, Paris Hall, Harlow.

J. and J. Carter, Ltd., 230 Empire House, St. Martins le Grand, E.C.1, builders. £100. Directors: John D. Carter, 122 Third Cross Road, Twickenham, Middx.; John N. Carter, Miraflores, Barbican Hill, East Loos, Cornwall.

I. H. Kirkby (Sale), Ltd., 5 School Road, Sale, Ches., builders. £6,000. Directors: John H. Kirkby and Mrs. D. L. Kirkby, 14 Harewood Avenue, Sale, Ches.

Leach and Wiggins Bros., Ltd., 2 Horder Road, Fulham, S.W.6, builders. £1,000. Directors: Edward J. Leach, Acacia, Hever Road, West Kingsdown, Kent; Robert W. Wiggins, 152 Estcourt Road, S.W.6; Charles N. Wiggins and James A. Wiggins.

West End Building Co. (Marple), Ltd., 15 Derby Street, Marple, near Stockport, Cheshire. £2,000. Permanent directors: Percy Woodhouse and Fanny Woodhouse, Apple Tree House, Cross Lane, Marple, Ches.

Collins Plant (Magor), Ltd., Midway, Llanmartin, Newport, Mon., builders. £100. Directors: Leslie T. Collins and Hazel F. Collins, Midway, Llanmartin, Newport, Mon.

Northways Construction Co., Ltd., 12 New College Parade, Finchley Road, N.W.3. £1,000. Directors: Cecil A. Curtis, 97 Geary Road, N.W.10; Joseph A. Hyams, 15 St. Peters Court, N.W.4.

Combined Constructions, Ltd., 24 Market Place, Rugby. £1,000. Directors to be appointed by subscribers. Subscribers: Hugh R. P. Thompson, The Old Hall, Kilsby, near Rugby (accountant); Eric T. Goodwin, 233 Clifton Road, Rugby (book-keeper).

Construction Research, Ltd., 133 Moorgate, E.C.2, builders and contractors. £2,000. Directors: Walter R. Scott, Northbrook House, Off York Road, Broadstone, Dorset; James M. A. Mills, 42 Morley Road, Boscombe East, Bournemouth.

Argosy Construction Co., Ltd., 1 Guildhall Road, Northampton, civil engineering contractors. £5,000. Directors: Roland G. Clayton and Mrs. Edna M. Clayton, 43 Windrush Way, Northampton.

Hawes and Hunter, Ltd., 7 Southwood Road, New Eltham, S.E.9, builders. £100. Directors: Ronald W. Hawes, 7 Southwood Road, S.E.9; Wm. J. Hunter, 27 Malabar Street, E.14.

W. Atkinson (Builder), Ltd. £100. Directors: Wm. Atkinson and Mrs. Kathleen Atkinson, Sweet Meadows, Money Row Green, Holyport.

Burwal Trading Co., Ltd., dealers in excavators, draining, dredging and other machinery, etc. £150. Directors not named. Subscribers: Herbert A. Burgess, 80 Farley Hill, Luton; Frank R. Walpole, 126 Wing Road, Leighton Buzzard, Beds.

Siddall's General Contractors, Ltd., building and general contractors. £100. Directors: Robert Siddall and Mrs. R. Siddall, 78 Roxburgh Street, Walton, Liverpool, 4.

Collison and Co. (Tenterden), Ltd., builders. £5,000. Directors: Reuben I. Collison and Mrs. Lillie Collison, 63/65 High Street, Tenterden, Kent.

Birchfield Builders, Ltd., 21 The Square, St. Annes-on-Sea. £100. Directors: John S. Burch, 14 Derbe Road, St. Annes-on-Sea; Valerie J. Brown, 9 Lightwood Avenue, St. Annes-on-Sea.

H. Leake (Builders), Ltd., 1a Sherlock Mews, Baker Street, W.1. £300. Directors: Eric E. Leake, 12 Kenver Avenue, N.12; Ernest Weatherley, 52 Regent Road, S.E.24; Alfred Myers, 103 Nelson Road, N.8.

Whitbread and Son (Decorators), Ltd., 43 Gerrard Road, Islington, N.1, building contractors. £100. Directors: Ernest W. Whitbread, 43 Gerrard Road, N.1; Ernest H. Whitbread, 121 Northchurch Road, Islington, N.1.

Transmission Excavations and Foundations, Ltd., Mansfield Road, Skegby, Sutton-in-Ashfield, civil engineers. £500. Director: Leonard J. Carlisle, 179 Mansfield Road, Skegby.

Auburn Contractors, Ltd., 753 High Road, London, N.12, builders. £15,000. Directors: Fdk. W. Auburn, Willow Creek, Arkley Lane, Arkley, Herts.; Chas. A. Auburn, Upalonge, Barnett Gate, Arkley, Herts.

J. H. Hallam and Son, Ltd., 102 New Walk, Leicester, builders. £15,000. Director: Clifford H. Hallam, 306 Leicester Road, Wigston Fields, Leicester.

Argyll Building Construction Co., Ltd., Hurlingham Chambers, Station Road, Clacton-on-Sea. £3,000. Directors: Clifford S. W. Syrett, 21 Oxford Road, Clacton-on-Sea; Matthew Waddell, Dairyfarm Meadow, Point Clear Road, Clacton-on-Sea.

Winlite, Ltd., 1/2 Sandringham Mansions, Exeter Road, Bournemouth, manufacturers of lightweight aggregates, breeze blocks, etc. £1,000. Directors: Wilfred D. O. Watton and Alice Watton, 866 Ringwood Road, Bournemouth; Albert G. C. Clarke, 310 Staines Road, Twickenham, Middx.

Thomas Kench, Ltd., Eydon, Northants., builders. £4,000. Directors: Fredk. C. Kench, Wayside, Eydon; David M. Kench, Eydon, Northants.

Wilkin Building Co., Ltd. £1,000. Directors: Ronald A. V. Wilkin and Eva J. Wilkin, 65 Kingswood Chase, Leigh-on-Sea, Essex.

Carey Bros. (Tunbridge Wells), Ltd., 17 Upper Grosvenor Road, Tunbridge Wells, builders. £200. Directors: Derek J. Carey, 3 Mereworth Road, Tunbridge Wells; Kevin Carey, 4 Bracken Road, Tunbridge Wells; Michael D. Carey, 90 Summerville Road, Tunbridge Wells.

Tedox Building Co., Ltd. £100. Directors: To be appointed by subscribers. Subscribers: Jean Herbert (company director) and Thomas A. Herbert (barrister), 156 Strand, W.C.2.

Clacton Estate and Construction Co., Ltd., 112 Vista Road, Clacton-on-Sea, builders and contractors. £1,000. Permanent directors: Lewis Spriggs and Amy Spriggs, Purleigh, Vista Road, Clacton.

Brett's Ready Mixed Concrete Co., Ltd., Bucklersbury House, Bucklersbury, E.C.4. £10,000. Directors: Wm. Brett, 93 Sea Road, Westgate-on-Sea; Herbert S. Brett, 43 Eithelbert Road, Canterbury.

A. and F. (Builders), Ltd., Barclays Bank Chambers, Church Street, Reigate. £100. Directors: Fredk. C. Tickner, Highworth, The Street, Beichworth (permanent); Arthur S. Tickner, 8 South Close Green, Mersham (permanent).

Wetherill Construction Co., Ltd., 48a London Road, Kingston-on-Thames, builders. £1,000. Directors: Brian M. Wetherill, Lavant, Renald Road, Beaconsfield, Bucks.; David J. Farley, Woodby Cottage, Charters Road, Sunningdale, Berks.

Abbey Estate Building Co. (Barrow), Ltd., Valley Drive, Barrow-in-Furness. £1,000. Directors: Wm. Bates, Heathergill, Greystone Mount, Dalton-in-Furness; Herbert H. Styles, Masons Arms, Market Street, Dalton-in-Furness.

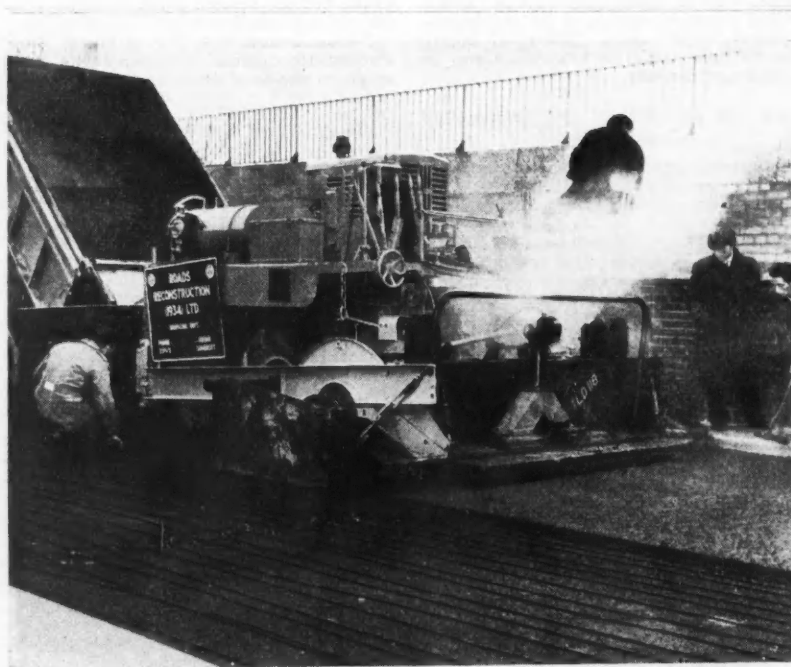
I. A. Taylor and Son, Ltd., West Lodge, Hambleton, Lincs., contractors, builders, etc. £1,000. Directors: Joseph A. Taylor, West Lodge, Hambleton, Lincs.; Frank Kay, Withington, Fairholme Gardens, Moorland Road, Poulton-le-Fylde.

Gurney Bros., Ltd., builders. £1,000. Directors: To be appointed by subscribers. Subscribers: Solomon Kaufman and Edgar Lev, 72 New Cavendish Street, W.1 (solicitors).

T. E. Construction, Ltd., St. Andrews House, 32 Holborn Viaduct, E.C.1, erectors of structures in timber and non-ferrous metals. £500. Directors: Wm. H. Willatts and Mrs. F. H. Willatts, 18 Vineyard Hill Road, S.W.19.

Watts and Aitken, Ltd., building contractors. £100. Directors: Wm. H. Watts and Robert H. Aitken, Hill View, Oakleigh Road, Hallow.

Whiterock Contractors, Ltd., 47 Hyde Road, Paignton, builders and contractors. £1,000. Directors: Stanley C. Mitchell and Mrs. Margaret E. Mitchell, 49 Occombe Valley Road, Paignton.



A Blaw Knox PF-90 Paver Finisher at work on the new Hook Under-pass on the Kingston By-pass where it is placing a 2in. carpet of hot rolled asphalt wearing course directly over road heating cables which are installed to prevent icing conditions on gradients. The cables are laid on the rolled asphalt base course and the rubber-tyred PF-90 is working directly on them laying the wearing surface without any damage to the cables

Trade Section

COMMER LIGHT VAN AND PASSENGER VEHICLE HAS CHOICE OF POWER UNIT

THE first British range of 15cwt. forward control vans and passenger vehicles with independent front suspension and a choice of petrol or diesel engines has been announced by the Rootes Group. Known as the Commer forward control $\frac{3}{4}$ -ton vans and passenger models, the vehicles, of all-steel unitary construction, are in volume production at the Dunstable plant of Commer Cars, Ltd.

The range has been introduced to meet the rapidly growing world-wide demand for an all-purpose type of light vehicle which is both economical to operate and easy to drive.

Petrol or Diesel

An outstanding feature is that the choice of power units makes them the only

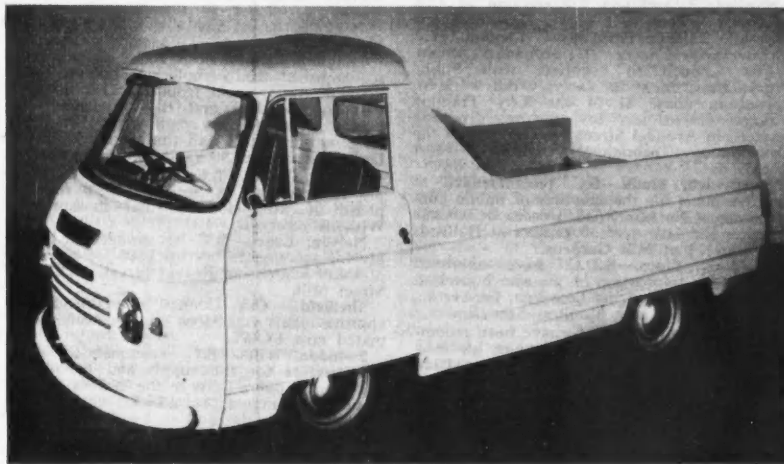
(with ratios of either 5.125 or 5.625:1) is carried on long semi-elliptical leaf-type springs.

Capacity

The full forward control body has a capacity—excluding the driving seat area—of 200 cubic feet or 210 cubic feet using the space alongside the driver.

Access to the body interior is given by the provision of sliding or hinged driver and passenger doors and by twin hinged rear doors. Also a hinged side door for kerbside loading can be fitted as a production option. This is positioned on the nearside of the body (only if hinged front doors are fitted), but on the passenger-carrying vehicles this door is fitted as standard and is positioned on the opposite side to that of the driver.

Should a single driving seat only be required, a further 10 cu. ft. load-carrying



New Commer $\frac{3}{4}$ -ton forward control pick-up

vehicles in their class with a diesel engine alternative. The petrol engine is a four-cylinder o.h.v. 1,494 c.c. unit developing 49-b.h.p. at 4,500-r.p.m. The diesel, a 1,621 c.c. four-cylinder Perkins engine, is of the indirect injection type, and develops 40.5-b.h.p. at 3,600-r.p.m.

From the engine, the drive is taken through a single plate clutch by means of a four-speed synchromesh gearbox and tubular propeller shaft to the hypoid bevel back axle. The gear change lever is of the stick type, mounted on the vehicle toe-board, and is positioned to allow three abreast seating with adequate leg room.

To give good riding characteristics, coil and wishbone independent front suspension is fitted. The semi-floating rear axle

space is provided alongside, bringing the total capacity up to 210 cu. ft.

Anti-rust Treatment

All bodies are given extensive anti-rust treatment during production. This consists of a spray Porterite treatment on the outside, followed by dip treatment with submerged spray jets to just above floor level. The dipping bath is fitted with submerged spray jets to ensure complete penetration to all parts of the body undergoing treatment. Next, two coats of spray synthetic primer sealer wet on wet are applied to both outside and body interior, after which the underside of the body structure is coated with underseal. Finally, the bodies can be finished, if required, in a choice of eight monotone colours.

TRADE NEWS IN BRIEF

Details of the new "Solidal" insulated electric cable are contained in a booklet received from Northern Aluminium Co., Ltd., Banbury, Oxon.

The twelfth issue of the Modular Catalogue—Glass Wall Covering—has been issued by the Modular Society, Ltd., 22 Buckingham Street, London, W.C.2.

Doulton Vitrified Pipes, Ltd., have produced a special four-page leaflet describing and illustrating the features of the "Flexadrain" joint. Copies may be obtained on application at Doulton House, Albert Embankment, London, S.E.1.

The telephone number of Higgs and Hill, Ltd., London, S.W.8, has been changed to Reliance 7688.

"Fire Protection of Structures" in the form of a four-page leaflet is now available from Turners Asbestos Cement Co., Ltd., of Trafford Park, Manchester, 17. It was produced for use in all compendiums which T.A.C. have supplied to architects, etc., in the United Kingdom.

From William Townson and Sons, Ltd., Higher Swan Lane, Bolton, details of the new "Townson" house in four basic types which comply with the new standards set by the Ministry of Housing and Local Government.

The General Descaling Co., Ltd., have opened a new office at 160 Edmund Street, Birmingham, to provide additional service to customers in the Midlands, the South West and Wales.

SIR ELLIS HUNTER ON STEEL OUTLOOK

"THE steel industry is now free from political threats, at any rate for some years, and we can pursue our task of improving efficiency and raising production," says Sir Ellis Hunter, chairman of Dorman Long and Co., Ltd., in his annual report.

"The current scale of demand," he states, "permits most of our plants to operate on a satisfactory basis, but it is not yet possible to say how much of this demand is due to restocking and how much is passing directly into consumption."

"In the field of general engineering it is clear that actual consumption has risen and this is an encouraging sign of a general expansion in trade. On the other hand it appears probable that the requirements of British Railways and the National Coal Board will continue on a reduced scale."

"The effects of the credit squeeze are still being felt by the structural engineering members of the group, who depend largely on the level of capital investment. There are indications of improvement but just as the prejudicial effects of the credit squeeze were delayed so also the benefits of expansion are slow to show themselves as work in the shops."

Sir Ellis says that the group's bridge department has important contracts on hand, while tenders for some major projects are in course of preparation. There are prospects of inquiries for further large bridges in 1960.

CATERPILLAR'S NEW SYNCHROTOUCH TRANSMISSION

Finger-tip shifting of DW20 and DW21 tractors is provided by the SynchroTouch transmission control recently introduced as optional equipment by Caterpillar Tractor Co. of Peoria, Illinois, U.S.A. Manual shift transmissions will continue to be available for the tractors.

The prime advantage of the new transmission control, state the manufacturers, is its feature of permitting operators to shift up or down instantly, by merely dialing a desired gear range. Eliminated is the necessity of performing the usual gear-shifting operations required by standard direct drive transmissions.

GIN WHEEL INCORPORATES SWIVEL RING

A gin wheel of new design, claimed by the manufacturers to ensure maximum safety and provide faster fixing, is being marketed by the building equipment division of Scaffolding (Great Britain), Ltd., Mitcham, Surrey.

The usual hook has been replaced by a specially designed drop forged swivel ring. This ring completely encircles the tube, eliminating the need for lashing and mousing.

The 10in. diameter pressed steel wheel has a self-lubricating oilite bearing and is mounted in a strong welded steel frame. It is suitable for $\frac{3}{4}$ in. diameter (2 $\frac{1}{2}$ in. circ.) rope and has a safe working load of 5 cwt.

MUNICIPAL ENGINEERS VISIT KEY FACTORY

A party of 41 members of the South East District of the Institution of Municipal Engineers, led by their chairman, Mr. K. C. Stanley, and assistant secretary, Mr. A. W. Worrall, recently visited the factory of The Key Engineering Co., Ltd., Larkfield, near Maidstone.

They were met by Mr. F. V. Wickham, sales director of the company, and were shown over the factory where they saw the manufacture of pitch fibre pipes from the original pulp to the final article.

Current Constructional Activities

PROJECTS

CONTRACTS

AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING

(See also Housing Schemes)

Birmingham.—City Council recommended to approve in principle, the preparation of plans for the construction of a central library within the area bounded by Great Charles Street, Edmund Street and Easy Row and the provision of a block of offices, approx. 14 storeys high, as part of the development of the Civic Centre area.

Brighouse, Yorks.—A. Turner and Sons, Clegg Street, Oldham, Lancs., are the architects for extensions to works at Birds Royd, for J. Blakeborough and Sons, Ltd. estimated cost £120,000.

Burnley, Lancs.—Sketch plans prepared by Ormerod and Partners, 49 Rodney Street, Liverpool, 1, for new factory in Liverpool Road, for Burco Dean, Ltd. Wakeman Trower and Partners, 47 Bloomsbury Square, London, W.C.1, are the quantity surveyors. Estimated cost £1m.

Cheltenham, Glos.—B.C. recommended to approve, subject to conditions, plans for the erection of builders store of 1,150 sq. ft. on existing builders yard at Casino Place, for Wheeler and Mansell, Ltd., 34 Painswick Road; alterations and extensions of 2,100 sq. ft. to part of existing premises at Keynsham Street, for Meats and Co., (Cheltenham), Ltd.

Dudley, Wores.—B.C. recommended to approve the appointment of Wills and Hingley, Wednesbury, as quantity surveyors, for the E.S.N. School.

Falkirk, Stirlings.—B.C. have been recommended to consider the erection of new Municipal Chambers at Westbank.

Gloucester.—City Council recommended to submit to Ministry for approval, plans for the construction of a new swimming bath adjoining the present bath.

Great Yarmouth, Norfolk.—B.C. recommended to approve in principle the construction of a children's paddling pool at Gorleston.

Guildford, Surrey.—B.C. have approved in principle a redevelopment scheme including an area bounded by High Street, Friary Street, Onslow Street, Bridge Street, Railway Esplanade, Farnham Road and along the railway to The Mount.

Halifax, Yorks.—Jones and Stocks, 7 Blenheim Terrace, Leeds, 2, are the architects for erection of C. of E. Secondary Modern School, for the Governors of the Holy Trinity (C. of E.) Transferred Secondary Modern School. Estimated cost £100,000.

Leyton, Essex.—B.C. recommended to submit plans for the approval of the Education Authority for the erection of a special school for E.S.N. pupils at Knotts Green site; to negotiate with selected contractors for repairs to approximately 20-25 dwellings in the borough.

B.C. recommended to approve for inclusion in the capital programme for 1960-61 extensions to the Direct Labour works department, comprising the erection of a carpenter's machine shop, carpenter's shop and the provision and installation of plant and equipment.

Linlithgow, West Lothian.—E.C. have approved the provision of a double classroom unit and improvement of toilet facilities at St. Joseph's R.C. School. Estimated cost £4,000. The County Architect is to invite tenders.

Mildenhall, Suffolk.—R.D.C. have approved layout plans for shops at High Street, Lakenheath, for the Lakenheath Co-operative Society, Ltd.

Nailsworth, Glos.—U.D.C. have submitted to Ministry for approval, plans for the con-

version of part of the Town Hall into council offices.

Ossett, Yorks.—B.C. recommended to approve sketch plans submitted by Illingworth. Son and Grisdale, 15 Sunbridge Road, Bradford, 1, for shop development at rear of Town Hall.

Oxford.—City Council recommended to approve plans for the provision of a pavilion with toilet and changing room accommodation at Banbury Road North sports ground.

Renfrewshire.—E.C. are to erect a new technical college at Greenock on a site to be vacated by the Admiralty.

Richmond, Yorks.—B.C. recommended to apply for sanction to borrow £1,700 for erection of eight garages on the Cutpurse Lane estate and eight in T'Anson Road.

Roxburghshire.—Scottish Home Department have approved in principle a plan to extend C.C. offices at St. Boswells. Estimated cost £150,000.

Sheffield.—City Council recommended to appoint Donald Bradshaw 10 Dale Street, Liverpool, 2, architect for erection of City Grammar School, and Yorke, Rosenberg and Mardall, 2 Hyde Park Place, London, W.2, architects for Chaucer (II) Secondary School.

City Council to negotiate with Public Works Department for carrying out work involved in phase II of the City Training College extensions; to approve diversion services in Arundel Street for stage III of the College of Technology. Estimated cost £5,689.

Smethwick, Staffs.—B.C. recommended to approve plans for the erection of public conveniences at Norman Road/Broadmoor Avenue junction and layout of 30 garages at Halfords Lane and 14 at Mill Gardens.

Spalding, Lincs.—R.D.C. have approved schemes for improving 24 pre-war houses at Quadring Fen, Quadring Low Fen, Gosberton, Moulton Chapel and Moulton Seas End.

Sutton, Surrey.—Co. E.C. have been recommended to approve the following: A new school for 200 infants in the Robin Hood Lane area; the adaptation of Sutton West Junior and Infants' Schools; and the adaptation of Sutton West Secondary Girls' School.

Swindon, Wilts.—B.C. recommended to approve the provision of ladies' toilets in the basement of the Civic Offices. Estimated cost £1,000.

B.C. recommended to approve the following revised 1960-61 minor building programme; second extension to Penhill Junior School, £18,000; extension, domestic science wing, at Ferndale Secondary School, £14,000; extension, domestic science room/laboratory, at the Grove Secondary School, £8,500; staff rooms, playgrounds, storeroom, scullery, etc., at the central school, £3,750.

Tyrone.—Co. E.C. have forwarded to the Ministry for approval, sketch plans for Dungannon Technical School and preliminary plans for the proposed new Omagh Technical School.

Walsall, Staffs.—Ministry have approved the use of land at Gorway for the erection of a Teacher's Training College, for B.C. Estimated cost £600,000.

Walton, Surrey.—Co. E.C. have approved a practical block and library at Walton Secondary Boys' School. Estimated cost £19,752.

Wellington, Salop.—U.D.C. to proceed with plans for the establishment of a public slaughterhouse. Estimated cost £36,260.

Woking, Surrey.—J. Stanley Beard, Bennett and Wilkins, 101 National Bank House, Baker Street, W.1, are the architects for a nursing home of 30 beds, for Nuffield Nursing Homes Trust, Ltd., 10 Essex Street, Strand, London, W.C.2. Estimated cost £90,000.

Wolverhampton, Staffs.—B.C. recommended to approve, subject to M.E. approval, schemes for improvement of toilets at St. Jude's C.E. and Dudley Road Junior and Infants' Schools. Estimated cost £1,300 and £1,500, respectively.

Worthing, Sussex.—B.C. recommended to apply for sanction to borrow £2,464 and £635, respectively, for the erection of 17 garages and provision of handstanding at Chesterfield Road and three garages and provision of handstanding at the rear of Burnham Road and Roedean Road.

B.C. recommended to approve in principle scheme for the erection of a new pavilion and provision of public lavatory accommodation at Broadwater Green. Estimated cost £10,000.

DEMOLITION

Carshalton, Surrey.—B.C. are to demolish five Phoenix flats at Stanley Road.

Cheltenham, Glos.—B.C. recommended to obtain tenders for the demolition of 41 Alstone Lane.

GAS AND WATER SUPPLY

Church Stretton, Salop.—C.C. have approved in principle R.D.C.'s water supply improvement scheme.

Leicester.—City Council recommended to apply for sanction to borrow £75,000 for new distribution works to supply River Dove water to Hinckley, Blaby and part of North Lutterworth districts; approve, subject to Ministry approval, scheme for providing and laying the necessary pipes to form an extension of the distribution system to supply consumers along the Groby Road west of Field Head; construction of a new service reservoir at Hoby Hall Hill; additional distribution capacity to the village of Stanton-under-Bardon, and to lay the necessary main to the west of Hoby Hall reservoir up to the boundary of the Urban District of Coalville. Estimated cost £54,800.

Loughborough, Leics.—B.C. recommended to approve the completion of the 12in. diameter water main from Blackbrook reservoir to Shephed and the provision of a separate 9in. delivery main from the pump house at Blackbrook to the service reservoir. Estimated cost £7,500 and £750, respectively.

Morley, Yorks.—B.C. recommended to apply for sanction to borrow £7,000 for first phase of work for remedial measures at Withens reservoir.

Nelson, Lancs.—B.C. recommended to apply for sanction to borrow £800 for provision of water main from Regent Street, to Edward Street Mill.

Sheffield.—City Council recommended to approve mains extensions and renewals. Estimated cost £8,865.

Swindon, Wilts.—B.C. recommended to invite tenders for the supply and installation of two new pump units in the Walcot Booster station. Estimated cost £4,400.

HEATING AND VENTILATING

Ayrshire.—C.C. have approved the installations of a coal-burning heating system at the garage, Barns Park, Ayr. Estimated cost £4,500.

HOUSING SCHEMES

Acton, Middx.—B.C. propose to erect seven dwellings for aged persons at 23 Rosemont Road.

Atcham, Salop.—R.D.C. to proceed with the erection of 20 one-bedroom flats at Upton Magna, Hanwood and Cross Houses.

Aylesbury, Bucks.—R.D.C. to erect 12 one-bedroom flats at Stone during this year.

Barnack, Peterborough.—Co. Planning Committee have approved plans for houses at Bainton, for R.D.C.

Basingstoke, Hants.—Ministry have granted B.C. permission to proceed with the erection of the first 50 houses under the L.C.C. expansion scheme.

Bideford, Devon.—B.C. propose the erection of 15 houses for slum clearance replacements and 24 old peoples' dwellings during 1960.

Bodmin, Corn.—B.C. recommended to submit to Ministry, for approval, plans for the erection, during 1960, of 20 bungalows at Trelawney Road, 50 houses and 20 bungalows at rear of Higher Bore Street, one bungalow at Downing Street, and six houses at Rock Lane.

Bridge-Blean, Kent.—R.D.C. to submit plans, for Ministry approval, for the erection of 93 housing units at Chislet, Waltham, Chatham, Adisham and Sturry during this year.

Brierley Hill, Staffs.—U.D.C. have approved a four-stage scheme for rebuilding the Chapel Street area. First stage will provide 160 dwellings in the Dean Street, Potter Street and Hill Street area.

Bromley, Kent.—B.C. recommended to appoint C. Weiss and Partners, 1 Wandsworth Road, London, S.W.8, as consulting engineers for design of prestressed concrete floors and load-bearing brick work for the Crown Lane flats; approve revised plans for 34 flats for old people, 70 maisonnettes, 62 garages, roads and

sewers at the housing site between Magpie Hall Lane and Turpington Lane. Estimated cost £202,500.

Buckfastleigh, Devon.—Co. Planning Authority have approved plans for the erection of six bungalows at Higher Mill Lane, for U.D.C.

Chatham, Kent.—B.C. are considering plans for the erection of one-bedroom houses and two-storey flats between Nelson Terrace, Beacon Hill and King's Road.

Cheltenham, Glos.—B.C. recommended to proceed with the preparation of plans for an eight-storey block of flats at Charlotte House site, Winchcombe Street.

Chesterfield, Derbys.—B.C. have submitted to Ministry for approval plans for the erection of 450 dwellings with garages at new housing estate.

Dawley, Salop.—U.D.C. recommended to approve plans for the King Street development to provide for 70 units in three- and four-storey flats and maisonnettes, six new shops adjoining the junction of High Street, and 33 garages.

Deben, Suffolk.—R.D.C. have approved the erection of four dwellings at Tuddenham and six at Trimley St. Mary.

Doncaster, Yorks.—Borough Architect recommended to submit a scheme for erection of 18 pairs of aged persons' bungalows at Highbury Avenue, Cantley estate.

Dudley, Worcs.—B.C. recommended to obtain tenders from selected contractors for the conversion into two flats of 2 Old Park, Priory.

Esher, Surrey.—U.D.C. propose the redevelopment of Upper Farm estate, West Molesey. The scheme includes 14 two-bedroom houses and a two-storey block of 32 bed-sitting rooms.

Eton, Bucks.—Ministry have approved plans for the erection of 138 dwellings during this year, for R.D.C.

Gloucester.—R.D.C. have approved, subject to Ministry approval, the erection of 18 one-bedroom dwellings at Easington, Frertherne-with-Saul and Whitminster. Estimated cost £24,613.

Hendon, Middx.—M. A. C. Simmonds and Partners, 6 Watford Way, London, N.W.4, are the quantity surveyors for six maisonnettes and six garages to be erected adjoining 4 Garrick Drive, Great North Way, for C. W. B. Simmonds, Ltd., 75 Shoot-up Hill, London, N.W.2.

Kidderminster, Worcs.—R.D.C. have approved scheme for the provision of 32 houses at Stone housing site.

Leyton, Essex.—B.C. recommended to prepare plans for the development of temporary bungalow sites in the borough for the erection of permanent dwellings.

Lichfield, Staffs.—City Council have approved in principle, schemes for the erection of 140 houses and 54 garages at Wheel Lane estate and 200 houses with 70 garages at Trent Valley site.

City Surveyor instructed to take borings at Sandford Street in connection with scheme for the erection of 105 dwellings.

Mildenhall, Suffolk.—R.D.C. have approved the erection of 16 bungalows at Aspal Lane, Beck Row.

Morley, Yorks.—Borough Engineer to be authorised to invite tenders from Wm. Airey and Son (Leeds), Ltd., Fell Construction Co., Ltd., and Homeville Co., Ltd., for the erection of 15 aged persons' bungalows, 35 two-bedroom houses and 20 three-bedroomed houses on the Churchwell Old Road estate.

Town Planning approval granted for erection of 55 bungalows, off Old Road Churchwell, Manor Farm estate, for Walt Ratcliffe, Ltd., 4a Christopher Road, Leeds, 6.

Newark, Notts.—R.D.C. propose the erection of 12 old people's flats with a community room at Manthorpe estate, Balderton.

Newcastle-under-Lyme, Staffs.—B.C. recommended to submit for planning approval, scheme for 120 houses at the Harrowby Drive/Sutherland Drive/Whitmore Road site; approve amended scheme for 77 flats and 10 single persons' dwellings at The Hollies, Hempstalls Lane; invite tenders for the erection of 24 dwellings and eight garages at the Loomer Road site, Chesterton.

Newtownabbey, Antrim.—U.D.C. have appointed R. T. J. Chambers, 9 Shaftesbury Square, Belfast, as architect for houses at Whitwell Road.

Norton-Radstock, Som.—Co. Welfare Services Committee have approved scheme for the erection of old people's homes at St. Chad's, Midsomer Norton, for U.D.C.

Peterborough.—Co. Planning Committee have approved amended plans for the erection of three-storey flats and maisonnettes at Paston Ridings estate, for City Council.

Petersfield, Hants.—R.D.C. plan the erection of 68 dwellings at Bramshot and Rowlands Castle, during 1960-61.

Rowley Regis, Staffs.—B.C. recommended to prepare a scheme for the development of land near St. John's Avenue for housing purposes.

Smethwick, Staffs.—B.C. recommended to approve and submit for planning approval, preliminary layout of 374 dwellings at Kingsway East.

Sutton, Surrey.—B.C. have approved outline applications for the following: Demolition of two houses and the erection of one three-storey block of 12 flats and 12 garages at 61 and 63 Langley Park Road, for M. J. Gleeson (Contractors), Ltd., London Road, Cheam, Surrey; demolition of two houses and out-buildings and erection of 25 flats in one three-storey block of nine, and four two-storey blocks of four, 21 garages and the construction of a cul-de-sac, for W. Lewis Hind, estate agent, 32 High Street, Sutton; Demolition of existing house and erection of one three-storey block of eight flats and one block of 13 garages at 16 Eaton Road, Sutton, for Brown and Richardson, Ltd., 7 Benhill Avenue, Sutton.

Truro, Corn.—R.D.C. to prepare plans for the erection of four houses at Chacewater and four at St. Agnes, for slum clearance purposes.

Wallingford, Berks.—Ministry have approved plans for the development of the south side of Didcot for the erection of 144 dwellings at Park Road (east) and 131 at Queensway (south) for R.D.C.

Wanstead and Woodford, Essex.—B.C. propose the erection of one 11-storey block of flats, one eight-storey block, a terrace of houses and old people's dwellings at the Eastern Avenue clearance area.

PLANT AND MECHANICAL TRANSPORT

Bromley, Kent.—B.C. recommended to invite tenders for the provision of a refuse collection vehicle.

PLAYING FIELDS, PARKS, ETC.

Cheam, Surrey.—C.C. propose to lay out two acres of land on the Northey estate, as playing fields, for Sutton Boys' Grammar School.

Loughborough, Leics.—B.C. recommended to apply for sanction to borrow £26,660 for the development of the Derby Road aerodrome site as playing fields.

Ochan, I. of M.—Tynwald recommended to approve scheme for improvements to the cycle track at the Park Stadium, for B.C. Estimated cost £2,134.

Salford, Lancs.—City Council recommended to apply for sanction to borrow £2,330 for playground extension at St. Ambrose's C.E. School.

Sheffield.—City Engineer to be authorised to construct a wayside garden at junction of Attercliffe Road and Worksop Road. Estimated cost £2,000.

Shepperton, Middx.—C.C. have approved the laying out of playing fields and garden surrounds at Shepperton County School. Estimated cost £8,585.

Swindon, Wilts.—B.C. recommended to approve scheme for the completion of the layout of Queen's Park. Estimated cost £26,600.

RIVER AND FLOOD PREVENTION WORKS

Leyton, Essex.—B.C. recommended to apply for sanction to borrow £3,000 for the installation of electrically and manually operated penstocks in the manhole chamber on the Leyton side of the River Lea.

ROADS, BRIDGES AND SITE WORKS

Birmingham.—City Council recommended to approve, subject to Ministry approval, schemes for the provision of car parks at Adelaide Street/Darwin Street, Highgate, and at junction of Windsor Street and Great Lister Street, Nechells Green. Estimated cost £6,489 and £1,923, respectively.

Buxton, Derbys.—B.C. recommended to submit to M.T. for approval plans for the construction of the Spring Gardens By-pass from Bridge Street to Devonshire Road.

Cheltenham, Glos.—B.C. recommended to apply for sanction to borrow £1,430 for surfacing the 12ft. wide entrance drive and an area within the King George V playing field to accommodate some 40 cars and coaches, and the removal and re-erection of the entrance gates from another entrance to be closed.

Chichester, Sussex.—M.T. have approved scheme for the provision of an asphalt surface car park at Sloe Fair Field, for City Council. Estimated cost £25,897.

Darenth, Kent.—Parish Council are considering schemes to level and improve the green at Lanes' End and to provide tenn's courts adjacent to Darenth Hall.

Edmonton, Middx.—B.C. have approved the construction of roads and sewers at Halliwick housing site. Estimated cost £7,900.

Essex.—C.C. propose the construction of a dual carriageway between Maybank Road and the A.113 Chigwell Road roundabout at Wanstead and Woodford.

Folkestone, Kent.—B.C. recommended to apply for sanction to borrow £7,200 for the making-up of Cornwallis Avenue.

Gillingham, Kent.—B.C. have approved scheme for the improvement of Berengrave Lane, Rainham, between the trunk road, London Road, and the Recorder House. Estimated cost £40,250.

Leyton, Essex.—B.C. recommended to invite tenders for the provision of a skating rink at Leyton Playing Fields at Marsh Lane.

Liverpool.—City Council recommended to apply for sanction to borrow £2,556 for road-works and alterations to services in Mount Vernon Road.

Harwich, Essex.—B.C. to apply for sanction to borrow £21,506 for the improvement and widening of Low Road, Dovercourt.

Norfolk.—C.C. have approved scheme for buying the following six lengths of disused railway track for conversion into roads: (1) Caister to California Halt, £28,800; (2) California Halt to the level crossing on the B.1159, £7,200; (3) from the level crossing westward for half a mile, £18,000; (4) Hemsby by-pass, £21,000; (5) Potter Heigham to Aylsham, £764,000; (6) at Thursford, from the B.1345 to west of the village on A.148, £32,400.

Petersfield, Hants.—R.D.C. propose the construction of a car park at Horndean during 1960-61. Estimated cost £750.

Rochester, Kent.—B.C. have approved scheme for the surfacing of the car park at Commercial Road, Strood.

Smethwick, Staffs.—B.C. recommended to approve sketch plans for widening of Cranford Street.

Stockport, Ches.—B.C. recommended to approve in principle scheme for the resurfacing of the highway in the Market Place adjacent to the Bull's Head Hotel, and plans for the provision of an access road from Manchester Road to the Broadstone Hall Road South Industrial Estate. Estimated cost £2,450 and £28,900, respectively.

B.C. recommended to apply for sanction to borrow £5,514 for the construction of roads and sewers at Victoria Park development.

Swindon, Wilts.—B.C. recommended to approve, subject to Ministry approval, scheme for the construction of roads and sewers on stage VI of the Park South neighbourhood. Estimated cost £40,000.

Weymouth, Dorset.—B.C. recommended to prepare plans for the making-up of Westhill Road (part), South Road (part), Rymead Lane, Marlborough Avenue and Broughton Crescent.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Builth, Brecons.—R.D.C. to prepare plans for proposed sewerage scheme for Cefngorwydd Village. Estimated cost £3,500.

Deben, Suffolk.—R.D.C. have approved in principle, outlying draft scheme for sewerage and sewage disposal at Rushmere, Purdis Farm, Kesgrave and Martlesham.

Downham, Norfolk.—Ministry have approved R.D.C.'s sewerage scheme for Southerly Village and detailed drawings are to be prepared. Estimated cost £74,587.

Leyton, Essex.—Ministry have approved in principle scheme for the main drainage at West Leyton drainage area (IV), stage I, for B.C.

Liverpool.—City Council recommended to apply for sanction to borrow £12,705 for reconstruction of sewers in Princes Road, Stonehill Street, Stonehill Avenue and passage east; St. Mary's Place and passage at rear; and Belmont Drive, and the reconstruction of manholes in Childwall Valley and Halewood.

Llandeilo, Carm.—R.D.C. have submitted to C.C. for planning approval plans for the construction of a pumping station at Pont-Ar-Bran in connection with the Llangadog sewerage scheme.

Martley, Worcs.—R.D.C. recommended to approve a sewerage and sewage disposal scheme for Sinton Green, Grimley. Estimated cost £55,700.

Newton Abbot, Devon.—U.D.C. have approved in principle scheme for the renewal of the main sewers in Queen Street and Courtney Street. Estimated cost £24,000.

Richmond, Yorks.—Borough Engineer to be instructed to prepare scheme for main drainage for the Darlington Road area.

Sheffield.—City Engineer to be authorised to carry out sewerage works in Low Road, Stannington. Estimated cost £4,500.

Wallingford, Berks.—R.D.C. have approved in principle proposed sewerage scheme for Long and Little Wittenham. Estimated cost £35,340.

Wimborne and Cranborne, Dorset.—R.D.C. have submitted to Ministry for approval drainage scheme for Ferndown and West Moors including the provision of new sewage disposal works at Palmers Ford. Estimated cost £500,000.

STREET LIGHTING

Bath, Som.—City Council recommended to apply for sanction to borrow £15,000 for the provision of sodium street lighting in 17 streets during 1960-61.

Cheltenham, Glos.—B.C. recommended to approve scheme for the extension of lighting in Evesham Road from West Drive to the Borough Boundary. Estimated cost £770.

Hertford.—B.C. recommended to proceed with scheme for the provision of improved street lighting in Fore Street, St. Andrew Street, Mill Bridge and The Wash. Estimated cost £1,275.

Huntingdon.—B.C. recommended to invite tenders for the installation of improved lighting on class A roads.

Maidenhead, Berks.—B.C. to proceed with the installation of street lighting at the Cox Green housing estate. Estimated cost £1,500.

Ossett, Yorks.—B.C. recommended to apply for sanction to borrow £8,550 for erection of street lighting columns.

Salford, Lancs.—City Council recommended to apply for sanction to borrow £30,610 for conversion from gas to electricity of street lighting in further side streets.

Wednesbury, Staffs.—B.C. recommended to approve scheme for the installation of improved street lighting in Ridding Lane, Holden Road, Mounts Road and part of Vicarage Road during 1960/61. Estimated cost £1,400.

CONTRACTS

Full details of the Contracts marked * will be found in our Advertisement Columns.

BUILDING AND DECORATING
(See also Housing Schemes)

Antrim.—Proposed additions and alterations to Craiforne Primary School, Headwood Lane, for Co. E.C. Documents from Education Officer, 475-477 Antrim Road, Belfast. Deposit £5. Tenders by Jan. 27.

Belfast.—Construction of a nest of three factories on site 11, Dunmurry industrial estate, Dunmurry, for Ministry of Commerce. Documents from the Ministry, Room 33, Chichester House, 64 Chichester Street, Belfast. Deposit £3. Tenders by Jan. 25.

***Blackburn, Lancs.**—Toilets at Accrington Road School, for B.C. Apply by Jan. 28.

Boston, Lincs.—Erection of a combined office building and fire-proof store approximately 46ft. by 18ft., to be brick-built with flat concrete roof, at the rear of the Council Offices at 126 London Road, for R.D.C. Documents from W. R. Beardall, surveyor, Council Offices, 126 London Road, Boston.

Bournemouth.—Improvement and repairs to school house, Pound Lane, Kinson, for B.C. Documents from the Borough Architect's Office, Room 106, Town Hall, Bournemouth. Deposit £1 1s. Tenders by Feb. 5.

Bradford.—External painting of houses, flats, and maisonnettes, and shops which are in groups varying from eight to 266 on the following estates, for City Council: Bierley—1,196, eight groups; Swain House—264, three groups; Lower Grange—208, two groups; Willow Close—16, one group; Eccleshill (s)—250, one group; Buttershaw—703, four groups; Elmfield—136, one group. Documents from the City Engineer and Surveyor, Town Hall, Bradford, 1. Tenders by Jan. 23.

Bridge-Blean, Kent.—Following, for R.D.C.: (1) Construction of brick retaining walls and incidental works at various properties on the Sturry housing estate; (2) painting and repairs to 17 sewer ventilating columns. Documents from Engineer and Surveyor, Council Offices, 41 Old Dover Road, Canterbury. Tenders by Feb. 10 (for contract 1) and Feb. 1 (for contract 2).

Bromley, Kent.—Preparation of two garage sites at the Coppice estate, for B.C., comprising approx. 920yd. of access roads, paved areas and garage floors in concrete on hardcore, together with drainage and ancillary works. Documents from the Borough Engineer, Municipal Buildings, Bromley. Tenders by Jan. 19.

Canterbury.—Erection of new kitchen accommodation at the Frank Hooker Secondary Modern School, London Road, for City Council. The kitchen will be an extension to the existing school premises. Applications to John L. Berbiars, city architect and planning officer, Municipal Buildings, Canterbury, by Jan. 22. Deposit £2 2s. Tenders by Feb. 15.

Canvey Island, Essex.—Erection of six garages and forecourt works in Cedar Road, for U.D.C. Documents from R. H. Stevens, engineer and surveyor, Council Offices, Canvey Island. Deposit £1 1s. Tenders by Jan. 29.

Canvey Island, Essex.—Erection of following, for U.D.C.: (a) Block of shops, Eastern

Esplanade; (b) shelter and kiosks, Labworth. Documents from R. H. Stevens, engineer and surveyor, Council Offices, Canvey Island. Deposit £2 2s. each contract. Tenders by Jan. 29.

Cardiff.—Construction of two annexes at the existing Preswylfa Occupational and Training Centre, Clive Road, Canton, for City Council. The works comprise two single-storey buildings to provide multi-purpose classrooms, cloakrooms and lavatories and site works. Documents from the City Architect's Department, 12 Park Place, Cardiff. Deposit £2 2s. (cheques payable to Corporation). Tenders by Feb. 10.

Cardiff.—Construction of a precast concrete roof to Rhiwina service reservoir, capacity 1,500,000 gallons, for City Council. The work consists of the fabrication and erection of approx. 2,400 sq. yd. of precast concrete roof with supporting beams and columns, together with roof finishes, etc. Documents from the Water Engineer and Manager, City Hall, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by Feb. 9.

Carmarthenshire.—Following works at a new holding to be provided on the Lower Court estate, St. Clears, for C.C.: (a) Erection of a farm homestead; (b) erection of farm outbuildings; (c) ancillary works. Applications to W. G. Lloyd, county land agent, Estates Department, 5 Queen Street, Carmarthen, by Jan. 21. Deposit £2 2s. Tenders by Jan. 28.

Chertsey, Surrey.—External painting of council property, for U.D.C. Applications to N. C. Goldsmith, engineer and surveyor, Council Offices, 22 Guildford Street, Chertsey.

Chesterton, Cambs.—External repainting of the following, for R.D.C.: (Group a) Cotton, 33 dwellings and two garages; (b) Cottenham, 36 dwellings; (c) Fen Ditton, 18 dwellings; (d) Graveley, 12 dwellings; (e) Madingley, seven dwellings; (f) Over, six dwellings; (g) Lt. Wilbraham, 24 dwellings. Documents from the Architect and Housing Manager, Chesterton Rural District Council, County Hall, Hobson Street, Cambridge. Deposit £2 2s., cheques payable to R.D.C. Tenders by Feb. 10.

Chingford, Essex.—Extension of the public conveniences at Green Farm, for B.C. Documents from Borough Engineer, Town Hall, Chingford. Deposit £2 2s. Tenders by Feb. 1.

Clutton, Som.—Modernisation and improvement of eight houses at Hunstrete Road, Farmborough, for R.D.C. Documents from the Housing Manager, Council Offices, Temple Cloud, Bristol. Tenders by Jan. 20.

Cork, Eire.—New garage and stores at Kinsale, for Kinsale Cannery, Ltd. Documents from Frank Murphy, 46 South Mall, Cork. Deposit £10 10s. Tenders by Jan. 25.

***Croydon, Surrey.**—Converting property in Birdhurst Rise into flats, for B.C. Tenders by Feb. 3.

Down.—Erection of a dining hall at Donald Primary School, for Co. E. C. Documents from Director of Education, 1 Wellington Place, Belfast, 1. Deposit £3. Tenders by Jan. 28.

Eastbourne, Sussex.—Erection of the following, for B.C.: (1) Three brick-built garages at site off Etchingham Road, Langney Village; (2) six brick-built garages at site off Ashgate Road, Langney Village; (3) ten brick-built garages at site off Timberley Road, Hampden Park; (4) six brick-built garages and four stores at site off Rockhurst Drive, Eastbourne. Applications to the Borough Surveyor, 2/4 Saffrons Road, by Jan. 20. Deposit £2 2s., cheques payable to Corporation. Tenders by Feb. 15.

Grimsby.—Following works required in the remodelling of Edward Primary Infants' School, Edward Street, for B.C.: (a) General building contract, comprising alterations and extensions to the existing single-storey building, together with drainage and other ancillary works; (b) heating and hot water installations with oil-fired boiler plant; (c) electrical installations. Documents from J. V. Oldfield, engineer and architect, Municipal Offices, Town Hall Square, Grimsby. Deposit £5 each contract. Tenders by Feb. 13.

Huntingdonshire.—Large extension to Huntingdon Secondary Modern School, for E.C. comprising five additional classrooms, two additional practical subjects rooms, toilet accommodation, etc., and limited site works. Applications to S. M. Holloway, architect, County Buildings, Huntingdon, by Jan. 22. Tenders by April 11.

Huntingdonshire.—Erection of Abbots Ripton V.C. School, for E.C., comprising three classrooms, together with ancillary works, site layout, etc. Applications to S. M. Holloway, architect, County Buildings, Huntingdon, by Jan. 22. Tenders by March 16.

Huntingdonshire.—Small extension comprising one classroom with toilets, including heating installation, to Brampton C.P. School, for

E.C. Applications to S. M. Holloway, architect, County Buildings, Huntingdon, by Jan. 22. Tenders by March 11.

Huntingdonshire.—Extension comprising hall/classroom, scullery and toilets to Holme V.C. School, for E.C. Applications to S. M. Holloway, architect, County Buildings, Huntingdon, by Jan. 22. Tenders by March 2.

Huntingdonshire.—Extension to Orton V.C. School, for E.C., comprising assembly hall, boilerhouse, together with heating installation and some site works. Applications to S. M. Holloway, architect, County Buildings, Huntingdon, by Jan. 22. Tenders by March 16.

***Huntingdon.**—Erection of a depot at Alconbury, for R.D.C. Deposit £2 2s. Tenders by Jan. 27.

Knottingley, Yorks.—Erection of a pavilion and public conveniences in the Knottingley playing fields, for U.D.C. Documents from the Surveyor, Council Offices, The Close, Knottingley. Tenders by Jan. 23.

Lancashire.—Following, for C.C.: Erection of three-storey classroom extension with alterations and additions to existing buildings at Ashton-under-Lyne Grammar School. Work is of traditional construction with felted roof and includes foundations, site works, drainage, services and finishes; erection of single-storey training centre at Ashton-under-Lyne in traditional construction with felted roof, including site works, drainage, services and finishes. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Jan. 18.

Lancashire.—Following works, for C.C.: One pair of police houses at Cliver, near Burnley; one pair of police houses at Culcheth, near Warrington; three-storey classroom extension with alterations and additions to existing buildings at Ashton-under-Lyne Grammar School—work is of traditional construction with felted roof and includes foundations, site works, drainage, services and finishes; erection of three-classroom single-storey extension to the Lytham Ansdell County Primary School—work is of traditional construction with felted roof, and includes foundations, site works, drainage, services and finishes; erection of two-classroom single-storey extension to Formby County Secondary School—work is of traditional construction with felted roof, and includes foundations, site works, drainage, services and finishes; erection of single-storey training centre at Ashton-under-Lyne in traditional construction with felted roof, including site works, drainage, services and finishes. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by Jan. 18.

Liverpool.—External painting of dwellings, shops, pram shelters and garages on Corporation estates, as follows, for City Council: (a) 312 flats, three shops, one caretaker's office—Speke Road Gardens; (b) 78 flats, 224 houses, 10 shops—Cantril Farm estate (portion I); (c) 12 flats, 215 houses and 31 lock-up garages—Cantril Farm estate (portion II); (d) 44 flats and one boys' club—Lawrence Gardens; (e) 202 flats—Portland Street; (f) 374 flats, eight shops—Queen Anne Street; (g) 348 flats and 55 pram shelters—St. Domingo Road; (h) 77 flats and six shops—St. Anne Street; (i) 25 flats—Victoria Square; (k) 184 flats—Blucher Street; (l) 164 flats—Sussex Street; (m) 88 flats, 529 houses—Woolfall Heath (portion I); (n) two flats, 267 houses, two shops—Woolfall Heath (portion II); (o) 18 flats, 73 houses—Woolton Grove; (p) 39 flats—Holly Street; (q) 376 temporary bungalows—Belle Vale estate. Documents from City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. Deposit £2 2s each contract (payable to City Council). Tenders by Jan. 21.

Liverpool.—Conversion to three self-contained flats, repairs and decorations, 37 Canning Street, for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by Jan. 25.

Liverpool.—Renewal of the plunge roofs at Steble Street Baths, for City Council. Documents from the Baths Manager and Engineer, 62 Fontenoy Street, Liverpool. Tenders by Jan. 19.

***Manchester.**—Additional sanitary accommodation at Ross Place School, for City Council. Tenders by Feb. 3.

Manchester.—Design, detailing, and construction of foundations, structural framework (in reinforced concrete or steel) reinforced concrete floors, stairs, and flat roofs for the proposed Civic Centre shops, Wythenshawe, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Feb. 19.

Manchester.—Office alterations at the Transport Department's Princess Road garage, Moss

Side, for City Council. Documents from the General Manager, 55 Piccadilly, Manchester. Tenders by Feb. 2.

Manchester.—Following, for City Council: (a) Erection of Royle Green Infants' School, Northenden; (b) alterations and extensions to Gorton Special School; (c) layout of playing fields at Abbey Hey School, Gorton. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Jan. 27.

Manchester.—Supply and erection of garages at Levenshulme Town Hall, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by Jan. 27.

Marshland, Norfolk.—External painting of approx. 200 council dwellings, for R.D.C. Documents from Housing Officer, Council Offices, Alexandra Road, Wisbech. Tenders by Feb. 18.

Mossley, Lancs.—Installation of bathrooms, hot water supplies and ventilated food stores in seven houses, for B.C. Documents from N. H. Bowdler, borough engineer and surveyor, Town Hall, Mossley. Tenders by Jan. 22.

Newcastle upon Tyne.—External repainting to houses on a number of housing estates, for City Council. Applications in writing to the Housing Manager, 19-21 Dean Street, Newcastle upon Tyne, 1. Tenders by Feb. 3.

Norfolk.—Erection of new farm buildings, and adaptation and repairs to existing farm buildings, at (1) King's Lynn (North Lynn), and (2) Welney, for C.C. Applications to the County Land Agent, 20 Hill House Road, Norwich, by Jan. 19.

Norfolk.—Erection of a police station with two houses attached (floor area approx. 4,400 sq. ft.) and a separate Inspector's house (approx. 1,500 sq. ft.) at Holt, for C.C. Applications to the County Architect, 27 Thorpe Road, Norwich, by Jan. 20.

North Riding.—Erection of Marton-in-Cleveland County Primary School, near Middlesbrough, for E.C. Documents from S. Morrison and Partners, architects, 103 Belper Road, Derby. Plans also seen at the offices of F. Barraclough, County Hall, Northallerton. Tenders by Feb. 6.

North Riding.—Erection of kitchen at Mickleton C. of E. School, near Barnard Castle, for E.C. Documents from F. Barraclough, County Hall, Northallerton. Tenders by Jan. 22.

Northumberland.—Erection of stage I of a county primary school at Old Hartley, for C.C. Applications to the County Architect, County Hall, Newcastle upon Tyne, 1, by Jan. 22.

Oldbury, Worcs.—Erection of a two-storey laboratory block at Oldbury Grammar School, Moat Road, Oldbury, for B.C. Applications to the Borough Engineer and Surveyor at Municipal Bank Chambers, Birmingham Street, Oldbury, by Jan. 22. Deposit £2 2s. Tenders by Feb. 16.

Orpington, Kent.—Alterations and additions at civil defence training centre, Crofton Pound Hill, Orpington, for U.D.C. Works involve dismantling existing buildings and erecting new prefabricated building, formation of new entrance and steps and internal alterations to partition walls of main building. Documents from Engineer and Surveyor, Civic Offices, The Walnuts, Orpington. Tenders by Jan. 30.

Oxford.—Construction of pavilion at New Marston recreation ground, for City Council. Tenders by Feb. 8.

Pontypool, Mon.—Building a new fireplace and stack in each of 208 B.I.S.F. houses on various sites, for U.D.C. Documents from the Architect, Council Offices, Pontypool, Pontypool. Tenders by Jan. 25.

Rochdale, Lancs.—Erection and completion of public conveniences at Dewhurst Road, Syke, for B.C. Documents from the Borough Surveyor, Town Hall, Rochdale. Tenders by Jan. 25.

Rochdale, Lancs.—Alterations at Greenbank Junior School annexe, for Syke youth club, for B.C. Documents from Borough Surveyor, Town Hall, Rochdale. Tenders by Jan. 25.

Ross-on-Wye, Heres.—Cattle market improvement, scheme 2, for U.D.C. Works include vertical cladding to existing buildings, concrete pavements, repairs to iron penning, etc. Documents from the Engineer and Surveyor, Council Offices, Broad Street, Ross-on-Wye. Tenders by Jan. 25.

St. Faith's and Aylsham, Norfolk.—Exterior painting of approx. 400 council houses on various sites, for R.D.C. Documents from the Housing Officer, Tudor Hall, Rose Lane, Norwich. Tenders by Feb. 8.

St. Helens, Lancs.—Erection of an aged persons' hostel to accommodate 60 persons, for B.C. The building is of load-bearing traditional construction and forms part of a neighbourhood centre to be situated near the junction of Derbyshire Hill Road and Ashtons Green Drive, Parr. Documents from M. Ward, borough engineer, City Hall, St. Helens. Deposit £2 2s. Plans also seen at the Archi-

tectural Office, 5 Cotham Street, St. Helens. Tenders by Feb. 2.

Skegness, Lincs.—Supply only of eight multiple concrete unit garages to Barnes Road, for U.D.C. Documents from Engineer and Surveyor, Town Hall, Skegness. Tenders by Jan. 29.

Skipton, Yorks.—Erection of a small two-storey extension to Granville Street offices (internal plan dimensions 12ft. 10in. x 13ft.), for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Granville Street, Skipton. Tenders by Jan. 29.

South Cambridgeshire.—External painting and repairs to houses in the following parishes, for R.D.C.: Abington Pigotts, two; Arrington, 20; Balsham, 22; Barrington, 34; Bassingbourn, 24; Castle Camps, six; Fowlmere, 20; Foxton, 44; Gamlingay, 26; Great Chishill, eight; Great Eversden, 10; Guilden Morden, 24; Heydon, two; Hildersham, 16; Horseheath, 16; Ickleton, eight; Linton, 36; Littleton, 26; Longstowe, four; Melbourn, 100; Melreth, 20; Shepreth, 16; Thriplow, 24; West Wrating, 12; Weston Colville, 10; Wimpole, four. Applications to the Architect and Surveyor, South Cambridgeshire Rural District Council, County Hall, Hobson Street, Cambridge. Tenders by Jan. 30.

Stourbridge, Worcs.—Exterior painting and decoration of 673 houses on various estates, for B.C. The work will be divided into eight groups of between 12 and 126 houses per group. Documents from H. W. Morris, engineer and surveyor, Council House, Stourbridge. Deposit £2 2s. Tenders by Feb. 10.

Stroud, Glos.—Following painting contracts during 1960, for R.D.C.: (H/31) Twenty-eight houses Cashes Green; (H/32) 23 properties at King's Stanley; (H/33) 13 properties at Middleyard, King's Stanley; (H/34) 50 bungalows at Leonard Stanley; (H/35) 20 houses at Woodchester; (H/36) six houses at Woodchester; (H/37) 20 properties at The Bourne, Brimscombe; (H/38) six houses at Bisley; (H/39) six houses at Oakridge; (H/40) 16 houses at Randwick; (H/41) eight properties at Kingscourt; (H/42) two houses at Brimscombe; (H/43) six flats at Thrupp. Applications to Housing Manager, Council Chambers, John Street, Stroud, stating contracts in which interested. Tenders by March 1.

Sunderland.—Precast concrete floors and in-situ staircases in 176 dwellings, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by Jan. 21.

Swansea.—Erection of a new assembly hall, art and craft room alterations and adaptations at the Llwyn-y-Bryn County Secondary School, for B.C. Applications to Cook, Rees and Tagholm, architects, Barclays Bank Chambers, Wind Street, Swansea. Deposit £5 5s.

Swansea.—Erection of a new school at Dyfatty, for B.C. Applications to Henry A. Ellis and Son, chartered architects, Mardy Chambers, 6 Wind Street, Swansea, by Jan. 22. Deposit £5.

Swinton, Lancs.—Artificial stone lintels and steps, wood windows, doors, precast concrete floor units, and electrical installation for 16 flats, for B.C. Documents from Borough Engineer, Town Hall, Swinton, Lancs.

Tewkesbury, Glos.—External painting works to various properties, for B.C. Documents from E. W. Penn, town clerk, Municipal Offices, Oldbury Road, Tewkesbury. Tenders by Jan. 30.

Walsingham, Norfolk.—External painting to 300 council houses in following parishes, for R.D.C.: Briston, Fakenham, Field Dalling, Fulmodestone, Gunthorpe, Hindringham, Great Snoring, Stiffkey, Walsingham, Wigton, Wiveton. Documents from the Housing Officer, Council Offices, Baron's Hall, Fakenham. Tenders by Jan. 30.

West Riding.—Scullery improvements at Thorne Moorends Junior Mixed School, for C.C. Applications to Divisional Architect, Planet Road, Adwick-le-Street, near Doncaster, by Jan. 25. Tenders by Feb. 8.

West Riding.—Extension of mess and lavatory block to form blacksmith's and inspector fitter's workshops at Highways Depot, Riverdale Road, Otley, for C.C. Applications to Divisional Architect, Salisbury Buildings, Albert Road, Harrogate, by Jan. 18. Tenders by Feb. 8.

West Suffolk.—Following, for C.C.: Carrying out various works at West Row County Primary School, comprising demolition of air raid shelter, erection of classroom and sanitary accommodation (total area approx. 900 sq. ft.), also minor alterations to existing building, part interior and exterior painting and repairs. Applications to County Architect, Westgate House, Bury St. Edmunds, by Jan. 20. Tenders by Feb. 26.

Wicklow, Eire.—Reroofing of Baltinglass courthouse, for C.C. Documents from the Secretary, Wicklow County Council, Courthouse, Wicklow. Tenders by Jan. 18.

Widnes, Lancs.—Erection of Greenfield (Day Special) School (E.S.N.) at Green Lane, for

B.C., comprising a single-storey building containing assembly hall, six classrooms, two practical rooms and ancillary accommodation. Documents from the Borough Architect, Grendan House, Widnes Road, Widnes. Deposit £2 2s. Tenders by Feb. 1.

Wiltshire.—Following, for C.C.: (1) The erection of a pair of semi-detached police houses at Corsham; (2) the erection of a pair of semi-detached police houses at Marlborough; (3) the erection of a single police house with office at Seend; (4) the erection of a single police house with office at Sherston. Applications to Clerk of the County Council, County Hall, Trowbridge, by Jan. 20. Deposit £2 2s. each project. Tenders by Feb. 22.

Wood Green, Middx.—Rebuilding, repointing, etc., 21 chimney stacks on the White Hart Lane and Perth Road estates, for B.C. Documents from Borough Engineer, Town Hall, Wood Green. Tenders by Feb. 2.

Worcestershire.—Erection of a nurses' house at Sedgeberrow, near Evesham, for C.C. Applications to L. C. Lomas, county architect, 14 Castle Street, Worcester, by Jan. 18. Deposit £2 2s.

Worcester.—Exterior redecoration and repair of the City Library, museum and art gallery, for City Council. Documents from City Engineer and Surveyor, 22 Bridge Street, Worcester. Deposit £2 2s., cheques payable to Corporation. Tenders by Feb. 1.

CLOTHING AND TEXTILES

***Bedfordshire.**—Fire service uniforms, for C.C. Tenders by Feb. 27.

Bradford.—Following, for City Council: Fire tunics and trousers, leather fire boots, shoes, undress jackets and trousers, officers' undress uniforms, gaberdine raincoats, shirts, socks, black ties, white blouses and waterproof over-trousers. Documents from the Chief Fire Officer, Fire Brigade Headquarters, Nelson Street, Bradford, 5. Tenders by Feb. 8.

Port Talbot, Glam.—Supply of workmen's waterproof clothing and overalls, for B.C. Documents from Borough Engineer's Department, Municipal Buildings, Port Talbot. Tenders by Jan. 29.

Stirlingshire.—Supply and delivery of uniforms for school janitors, for C.C. Documents from James D. Kennedy, county clerk, County Offices, Viewforth, Stirling. Tenders by Jan. 29.

Swansea.—Supply of uniform clothing, mackintoshes, waterproof and protective clothing, and footwear, for B.C. Documents from the Supplies Officer, Central Purchasing Department, Westbury Street, Swansea. Tenders by Jan. 21.

DEMOLITION

Bradford.—Demolition and clearing of the following properties, for City Council: (1) Block E, warehouse and office property, two to six storeys high, bounded by Hall Ings, Bentley Street, Leeds Road, and Booth Street. Approximate site area 2,086 sq. yd.; (2) house property 25-41 Brunswick Road, Greengates; (3) brass foundry and machine shop, 310 Wakefield Road. Documents from Engineer and Surveyor, Town Hall, Bradford. Deposit £2 2s. for No. 1. Tenders by Feb. 1.

Chesterton, Cambs.—Demolition of two cottages and outbuildings at Longstanton, for R.D.C. Documents from the Architect, County Hall, Hobson Street, Cambridge. Deposit £2 2s., payable to R.D.C. Tenders by Jan. 27.

Consett, Durham.—Demolition of the under-mentioned properties: 7, 9, 11, 13, 15, 17, 19, 21, 23, 24, 26, 27, 28 and 28a, Walton Row, Blackhill, for U.D.C. Applications to the Surveyor, Consett Urban District Council, Council Offices, Medomsley Road, Consett. Tenders may be for any item of property or for a group of properties. Tenders by Jan. 19.

Neath, Glam.—Demolition and clearance of 1-22 (inclusive), Francis Street, Skewen, for R.D.C. Documents from J. T. Jones, engineer and surveyor, Council Offices, 18 Orchard Street, Neath. Deposit £2 2s. Tenders by Jan. 26.

***Sherborne, Dorset.**—Demolition of cottages, for U.D.C. Tenders by Feb. 6.

Stroud, Glos.—Demolition of Hillcrest, Kingscourt, and the clearance of the site, for R.D.C. Documents from the Clerk to the Council, Council Chambers, John Street, Stroud. Tenders by Jan. 25.

ELECTRICAL

Cardiff.—Electrical installation in Borderline E.S.N. School, Llanishan, for City Council. Documents from City Surveyor, City Hall, Cardiff. Deposit £2 2s., cheques payable to Corporation. Tenders by Jan. 19.

Manchester.—Installation of 6,600-volt cables, road lighting, and telephone cables, at Devyulme sewage works extensions—stage 1B, for City Council. Documents from the City Surveyor, Town Hall, Manchester. Tenders by Jan. 25.

Manchester.—Electrical installations to the following, for City Council: Contract 265—48 dwellings, Levenshulme; contract 222F—two surgeries, Ridgway Street. Documents from Director of Housing, Town Hall, Manchester, 2. Tenders by Jan. 25.

***Newcastle upon Tyne.**—Installation of telephone exchange, for City Council. Tenders by Feb. 5.

Northern Ireland.—Electrical installation in new office building at Queen Elizabeth Road, Enniskillen. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Feb. 1.

Northern Ireland.—Supply, delivery and erection at Coolkeeragh power station, Londonderry, of the following, for Electricity Board: Main connections between generator and associated generator transformer for III 60-MW turbo-generator. Documents from the Board's consulting engineers, Kennedy and Donkin, 64 Royal Exchange, Manchester, 2. Deposit £5 5s. (cheques payable to the Board). Tenders by Feb. 8.

Peterborough.—Electric lighting and power installations to 16 bungalows at Tudor Close, Gunthorpe estate, for City Council. Documents from the City Engineer, Town Hall, Peterborough. Deposit £2. Tenders by Jan. 19.

FENCING

***Croydon, Surrey.**—Supply and erection of fencing, for B.C. Tenders by Feb. 15.

Dewsbury, Yorks.—Supplying and erecting approximately 280 yd. of chain link fencing at Healds Road, for B.C. Documents from the office of the Borough Architect and Building Surveyor, Town Hall, Dewsbury. Tenders by Jan. 25.

***Lindsey.**—Supply of fencing, for C.C. Tenders by Jan. 27.

***Manchester.**—Fencing at school for the deaf, for City Council. Tenders by Jan. 27.

Tyrone.—Following, for E.C.: (1) Aughnacloy P.S.—erection of fencing; (2) Benburb P.S.—erection of fencing, tarmacadam work, etc.; (3) Drumglass, Killylevin and Newmills Primary Schools—tarmac surfacing. Documents from the Chief Education Officer, Education Offices, Omagh. Tenders by Jan. 19.

Willenhall, Staffs.—Provision and erection of 1,183 lin. yd. of 6ft. high chain link fencing on precast concrete bent arm posts with two sets of 20ft. wide chain link gates, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Willenhall. Tenders by Jan. 22.

GAS AND WATER SUPPLY

Carlisle.—Construction of a reinforced concrete service reservoir having a capacity of 5m. gallons at High Brownson, near Carlisle, for City Council. Applications, with details of similar work previously carried out, and names of the engineers responsible, and of experienced staff and workmen available, to Town Clerk, 15 Fisher Street, Carlisle, by Jan. 25.

Donegal, Eire.—Supply and installation of a complete rapid gravity filtration plant having a capacity of 425,000 g.p.d. at Creeslough, for C.C. Documents from the Secretary, Donegal County Council, County House, Lifford. Deposit £10 10s. Tenders by Feb. 19.

***East Devon.**—Contract P.5 (amended)—small hydro-pneumatic booster plant, for Water Board. Tenders by Feb. 8.

Glendale, Northumb.—Following for R.D.C.: Contract A.—the laying of approx. 275 lin. yd. of 4in. dia. cast-iron main at Wooler; contract B.—the laying of approx. 1,100 lin. yd. of 2in. dia. polythene pipe in fields near Mindrum Mill near Mindrum. Documents from Waterhouse and Rounthwaite, consulting engineers, 165 Westmorland Road, Newcastle upon Tyne, 4. Deposit £2 2s. Tenders by Jan. 25.

Iraq.—Following for Director General of Water and Electricity, Ministry of Municipalities: Supply and erection of the clarifying tanks with mechanically operated sludge scrapers, flocculating tanks, flash mixers, alumina dosing apparatus, horizontal rapid pressure filters, air blowers, gaseous chlorinators with platform weighing scales, two electrically operated low lift pumping units, two electrically operated high lift pumping units, switch boards, cables, venturi meter and recorder, welded steel plate elevated service tanks, electrically operated water level recorder, suction main, pumping mains, pump and filter house building, overhead gantry crane, electric lighting, sewage disposal system, and all other appendages, connections and ancillary works in the new water supply scheme for Karmat Beni Sa'ad Nasirya Liwa. Documents from the Embassy of the Republic of Iraq, 21 Queens Gate, S.W.7. Deposit £10. Tenders by April 2.

***Luton, Beds.**—Supply and laying of approx. 350 lin. yd. of 14in. asbestos-cement water main, together with four 4in. polythene water

services, for R.D.C. Documents from the Engineer and Surveyor to the Council, 48 Bute Street, Luton. Deposit £1 1s., payable to R.D.C. Tenders by Jan. 23.

***Mid-Sussex.**—Trunk mains to Cuckfield reservoir, for Joint Water Board. Deposit £5 5s. Tenders by Jan. 29.

***North Devon.**—Construction of Bickham Moor service reservoir, contract 55, for Water Board. Deposit £2 2s. Tenders by Feb. 13.

***Witney, Oxon.**—Comprehensive water supply scheme, contract 14, for R.D.C. Deposit £3 3s., cheques payable to R.D.C. Tenders by Feb. 10.

***Witney, Oxon.**—Borehole at Broadwell Grove, contract 15, for R.D.C. Deposit £3 3s., cheques payable to R.D.C. Tenders by Feb. 10.

HARBOURS, PIERS AND SEA DEFENCE WORKS

***Bournemouth.**—Windbreak at Pier Neck, for B.C. Tenders by Feb. 8.

HEATING AND VENTILATING

Dumbarton.—Conversion to oil burning of one Cornish boiler, including the complete installation on site and all ancillary work and the provision of an oil storage tank, for Central Hospital Committee. Applications to S. O. McKellar, secretary, The Central Hospital, Dumbarton, by Feb. 15.

Hoden, Yorks.—Installation of hot water systems, w.c.s. and drainage work at four Council houses at Hotham and two at Faxfleet, for R.D.C. Documents from the Surveyor, 41 Haigate, Howden. Tenders by Jan. 28.

Lancashire.—Following, for C.C.: Heating and primary hot water services at Eccles Monton Adult Training Centre: (1) heating and ventilation installation; (2) secondary hot water services, at Formby St. Luke's C.E. School. Applications to the County Architect, P.O. Box 26, County Hall, Preston, by 10.30 a.m., Jan. 18.

Newcastle upon Tyne.—Following for City Council: (a) Heating, ventilating, hot and cold water service installations; (b) electrical installation; (c) electric lifts installation, in new town hall. Applications in writing to the City Architect, 18 Cloth Market, Newcastle upon Tyne, 1, by Jan. 23.

HOUSING SCHEMES

Andover, Hants.—One pair of aged persons' bungalows and site works at Bulberry, Abbots Ann, for R.D.C. Documents from Engineer and Surveyor, Council Offices, Junction Road, Hants. Tenders by Feb. 3.

Antrim.—Seven houses at Greenmount Agricultural College, Muckamore, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Deposit £2. Plans also seen at Greenmount Agricultural College, Muckamore. Tenders by Jan. 25.

Blackburn, Lancs.—Twelve aged persons' flats at Whitebirk, for B.C. Applications to Borough Engineer, Town Hall, Blackburn, by Jan. 26. Deposit £2 2s.

***Bollington, Ches.**—Twenty-eight bungalows at Bollington Cross, for U.D.C. Deposit £2 2s. Tenders by Feb. 15.

Castle Donington, Derbys.—One pair of three bedroom type houses in School Lane, Bolton, for P.D.C. Documents from McCarthy Collins and Co., architects, 187 Forest Road, Coalville. Deposit £2 2s., cheques payable to R.D.C. Tenders by Feb. 15.

Chiswell, Essex.—Following, for U.D.C.: (1) Oakwood Hill, phase C—48 two-storey houses of traditional construction, in pairs and terraces, and all ancillary works; (2) Lambourne Road/Coopers Close—two sites to be treated as one contract, consisting of 20 bed-sitting room flats at Lambourne Road and eight one-bedroom flats, all in two storeys, at Coopers Close; (3) Lechmere Avenue, phase B—14 houses of traditional construction in pairs and terraces. Applications to the architects, Tooley and Foster, Midland Bank Chambers, Buckhurst Hill, by Jan. 18.

Colchester.—Seventy-five flats and houses on the Greenstead site, for B.C. Documents from J. S. Orchard, borough engineer, 1 West Stockwell Street, Colchester. Deposit £10 10s. Plans also seen at the office of the Architectural Section, 64 West Stockwell Street. Tenders by Feb. 8.

Featherstone, Yorks.—Twenty-two houses at Featherstone Square, for U.D.C. Documents from Turner and Holland, architects, 4 King Street, Wakefield. Deposit £2 2s., cheques payable to U.D.C. Tenders by Feb. 2.

Gallagher, Glam.—One hundred and twelve dwellings of various types, together with road finishing works, etc., in the first phase of the Shingrie housing site, Trelewis, for U.D.C. The dwellings are proposed to be of traditional construction to the Council's own designs but the Council are willing to consider tenders from contractors who may wish to put forward traditional dwellings of their

own proprietary designs. Documents from the Engineer and Surveyor, Council Offices, Hengoed, Glam. Deposit £5 5s. Tenders by Jan. 28.

Great Yarmouth.—Erection on Magdalen College estate, Gorleston, of the following, for B.C.: (a) Six type 4H/5 houses, Magdalen Square; (b) nine type 4H/5 houses, Magdalen Way (rear of shops); (c) 12 type 4F/9 and 10 flats, Magdalen Way (rear of shops); (d) five type 4H/5 houses, Oxford Avenue; (e) 10 type 4H/5 houses, Wadham Road. Documents from Borough Engineer, Town Hall, Great Yarmouth. Deposit £2 2s. Tenders by Feb. 5.

Hemel Hempstead, Herts.—Four additional old persons' bungalows, including site works, in Adeyfield Road, for B.C. Documents from A. H. Turner, borough engineer, High Street, Hemel Hempstead. Tenders by Feb. 1.

Hereford.—Sixty-two three bedroom traditional houses and 32 garages on a site at Newton Farm, section IV, for City Council. Documents from the City Architect, Town Hall, Hereford. Deposit £2 2s. Tenders by Feb. 8.

High Wycombe, Bucks.—Sixteen semi-detached houses and three detached houses, complete with garages, etc., at Gibson Road, High Wycombe, for B.C. Documents from Borough Engineer and Surveyor, Municipal Offices, High Wycombe. Tenders by Jan. 27.

King's Lynn, Norfolk.—Eight bungalows, Chapel Yard, West Lynn, for B.C. Documents from G. Holmes, borough housing architect, Clifton House, Queen Street, King's Lynn. Deposit £2 2s. Tenders by Feb. 8.

Kiveton Park, Yorks.—Following, for R.D.C.: (1) Six traditional houses at Woodland Drive, North Anston; (2) six traditional type houses at Burns Road, High Nook site, Dinnington. Contractors may tender for either or both sites. Documents from the office of B. D. Thompson, architect, 102 Bridge Street, Worksop. Deposit £3 3s., cheque each, payable to R.D.C. Tenders by Feb. 4.

Liverpool.—Following for City Council: (a) Six flats, Culme Road, Muirhead Avenue; (b) four houses, Runton Road, Lee Park estate, Gateacre. Documents from City Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. Deposit £2 2s. each contract, payable to City Treasurer. Tenders by Jan. 21.

***Manchester.**—Erection of dwellings and shops, contracts 317 and 323, for City Council. Tenders by Jan. 25.

Martley, Worcs.—Six bungalows in the parish of Bransford, for R.D.C. Documents from the Engineer and Surveyor, 1 The Tything, Worcester. Tenders by Feb. 5.

Narberth, Pems.—Six type S.3 three-bedroomed houses; two type S.W. two-bedroomed bungalows and two type S.B. one-bedroomed bungalows at Lower Cart Road, Saundersfoot, for R.D.C. Documents from C. J. H. Beynon, deputy clerk, Council Offices, Narberth. Deposit £3 3s. Tenders by Feb. 4.

Newbury, Berks.—Seventy-eight houses scheme 7.H, Bath Road estate, for B.C. Documents from Borough Surveyor, Municipal Buildings, Newbury. Tenders by Feb. 5.

***Oldham, Lancs.**—Twenty-nine aged persons' flats and warden's house, for B.C. Deposit £2 2s., cheques payable to Borough Treasurer. Tenders by Feb. 1.

Plymouth.—Forty flats in two blocks—one comprising 18 flats and the other 22 flats, at Castle Street, for City Council. Applications to the City Architect, Seymour Road, Plymouth, by Jan. 19. Deposit £3 3s., payable to Corporation.

Renfrewshire.—Five blocks comprising 17 houses at Harvey Terrace, Lochwinnoch, for C.C. Applications to the County Engineer, 16 Back Sneddon Street, Paisley, by Jan. 18.

St. Faith's and Aylsham, Norfolk.—Erection of 37 bungalows, for R.D.C., as follows: Cawston (six), Reepham (two), Salhouse (four), Sorrowston (15), Swannington (four), Great Witchingham (six). Documents from the Housing Officer, Tudor Hall, Rose Lane, Norwich. Deposit £1 1s. Tenders by Feb. 8.

St. Germans, Corn.—Two pairs of old people's dwellings at Mill Road, housing site, Tideford, for R.D.C. Documents from the Surveyor, Council Offices, Lower Port View, Saltash. Deposit £2 2s. Tenders by Feb. 3.

Saffron Walden, Essex.—Six houses and eight flats at Standed Mountfitchet, for R.D.C. Documents from the Clerk of the Council, Council Offices, Debden Road, Saffron Walden. Tenders by Jan. 30.

Tillicoultry, Clackmannan.—Sixty-four dwellings on prepared sites, for B.C. Applications to A. G. Bracewell, burgh architect, 36 Walker Terrace, Tillicoultry, by Jan. 25.

Tynemouth.—Aged persons' dwellings at Beadnell Avenue, North Shields, for B.C. Documents from the Borough Surveyor, 16 Northumberland Square, North Shields. Deposit £2 2s. Tenders by Feb. 8.

***Welton, Lincs.**—Houses, roads and sewers at Saxilby, for R.D.C. Deposit £3 3s. Tenders by Feb. 3.

Westmeath, Eire.—Fencing of plots and construction of 15 cottages in the County Health District, for C.C. Documents from the County Secretary, County Buildings, Mullingar. Deposit £2. Tenders by Jan. 29.

***Woking, Surrey.**—Four flats at Goldworth Road and Kingsway, for U.D.C. Apply by Jan. 18. Deposit £2 2s. Tenders by Feb. 26.

MATERIALS AND SUPPLIES

Accrington, Lancs.—Following for the year ending March 31, 1961, for B.C.: Bitumen macadam; fine cold asphalt; tars and bitumen emulsions; manhole and gully castings; cement; concrete flags, kerbs and edgings; coarse aggregate for concrete; fine aggregate and sand; roadstone chippings; salt-glazed ware pipes, etc.; chain link fencing (plastic covered); chestnut fencing. Documents from B. Hartley, borough engineer and surveyor, 44 Union Street, Accrington. Tenders by Jan. 30.

Barking, Essex.—Following for the period April 1, 1960-March 31, 1961, except where otherwise stated, for B.C.: Ashes; ballast, sand and shingle; lime and cements; ready-mixed concrete and paving mortar; salt-glazed ware; paving slabs, kerb and edging (artificial stone); cold asphalt, carpeting material; cold bitumen emulsion; cutback bitumen (spraying grade); granite chippings, hot rolled asphalt (patching); tar/bitumen compound, sprayed; tarred and bituminous macadams; dustbins; vehicle batteries; cleaning materials, including toilet paper and brooms and brushes; petrol, paraffin, gas, diesel, vaporising oils; fuel oil (35 secs. and 200 secs.); uniforms and protective clothing; blacksmiths' work (tool sharpening); motor haulage; typewriter servicing; thermoplastic white lines; tyres and tubes; Ideal Britannia boilers and spare parts; window cleaning (for a period of three years). Documents from the Borough Engineer and Surveyor, Town Hall, Barking. Tenders by Jan. 29.

***Beblington, Ches.**—Supply of materials, for B.C. Tenders by Jan. 22.

Bermondsey.—Following for the period of 12 months commencing April 1, 1960, for B.C.: Asphalt reinstatement of trenches; ballast sand and shingle, etc.; bituminous slag macadam; bituminous emulsion; bookbinding; boots; brooms and brushes; clearance of rubbish; coal and coke; cold asphalt; drymix mortar; electric lamps; newspaper and periodicals; pails, dustbins, etc.; patent paving; piano tuning; sharpening masons' tools; uniforms; window cleaning. Documents from the Town Clerk, Municipal Offices, Spa Road, London, S.E.16. Tenders by Jan. 30.

Berwick-upon-Tweed, Northumb.—Supply and delivery of 127 Douglas-type all-filled firebricks complete with Lowburn 25 16in. A.N.B. fire back boiler, etc., or their equivalent, for B.C. Documents from Borough Surveyor, Municipal Buildings, Wallace Green, Berwick-upon-Tweed. Tenders by Jan. 20.

***Biddulph, Staffs.**—Supply of materials, for U.D.C. Tenders by Feb. 8.

***Birkenhead, Ches.**—Supply of materials, for B.C. Tenders by Feb. 13.

***Brierley Hill, Staffs.**—Supply of petrol and diesel oil, for U.D.C. Tenders by Jan. 30.

Bromley, Kent.—Supply of the following for the year ending March 31, 1961, for B.C.: (1) Tarmacadam; (2) bitumen macadam and pre-coated chippings; (3) fine cold asphalt; (4) granite chippings; (5) artificial stone paving; (6) cement; (7) concrete aggregate, sand, ballast and lime-sand mortar; (8) manhole covers and frames, gully grates and frames; (9) mechanical sweeper brooms; (10) haulage and clinker; (11) solid fuel. Documents from the Borough Engineer, Municipal Buildings, Bromley. Tenders by Jan. 29.

Brentwood, Essex.—Following during the year ending March 31, 1961, for U.D.C.: (1) Road tar; (2) tarmacadam, bituminous macadam, bituminous concrete; (3) sand, pit sand, ballast and shingle; (4) precast concrete flagging and kerb; (5) clinker, ashes, hardcore and breeze; (6) cement; (7) glazed ware pipes; (8) granite chippings; (9) cold emulsion and cold asphalt; (10) sharpening of tools; (11) mechanical haulage and plant; (12) rebasting of mechanical sweeper brushes; (13) precast concrete pipes and manholes; (14) plastic white lines; (15) petrol, diesel fuel oil, vas oil, paraffin, lubricating oil; (16) turf; (17) tools for highway work; (18) oilmen's sundries; (19) brushes; (20) protective clothing; (21) hydrated lime; (22) electric light bulbs; (24) split chestnut fencing, oak fencing posts and chestnut stakes; (25) chain link fencing; (26) precast concrete fence posts; (27) dustbins; (28) rainwater gonds; (29) sanitary goods and plumbers' materials; (30) ironmongery and castings; (31) builders' sundries; (32) painters' sundries; (40) tyres and tubes; (41) salt for snow clearing; (43) coke. Documents for tenders numbered (1) to (22) inclusive, and (40), (41) and (43) can be obtained from the Engineer and Surveyor, and tenders numbered (24) to (32) inclusive from the Housing Manager,

at the Council Offices, Brentwood. Tenders by Feb. 5.

***Chertsey, Surrey.**—Supply of materials, for U.D.C. Tenders by Feb. 3.

***Cowes, I. of W.**—Supply of materials, for U.D.C. Tenders by Feb. 5.

East Sussex.—Supply of materials for the year 1960-61, as follows, for C.C.: (1) Coated and uncoated stone; (2) premixed waterbound macadam, asphaltic concrete, beach, gravel and sand; (3) refined tar and cold emulsion; (4) hire of haulage vehicles; (6) application of white lines; (7) fixing road studs; (8) heating and planing; (9) application of surfacing materials by Barber-Greene; (10) application of surface dressing; (13) salt and grass seed; (14) cast-iron gully covers, gratings and frames, and g.s.s. pipes; (15) concrete pipes, kerbs and paving. Documents from County Surveyor, County Hall, Lewes. Tenders by Feb. 1.

Epping, Essex.—Supply of the following for the year ending March 31, 1961, for U.D.C.: Sand; refined tar or tar compounds (including spraying and gritting); tarmacadam and asphalt; concrete kerb; cement; coke; cold emulsion; ashes and clinker; distemper; paint; petrol. Documents from H. J. Mead, surveyor, 91 High Street, Epping. Tenders by Jan. 29.

Glamorgan.—Following in respect of county roads in the northern, southern, eastern and western divisions of the county for the year commencing April 1, 1960, and ending March 31, 1961, for C.C.: Supply and delivery of: (1) uncoated roadstone, concrete aggregate, sand and clinker, ready-mixed concrete, coated macadam, hot rolled asphalt; (2) common and engineering bricks; (3) manhole covers and frames, gully gratings and frames; (4) emulsions; (5) precast concrete kerbs, edgings, flags and concrete bricks, blocks and rock-faced blocks; (6) salt-glazed pipes and agricultural pipes; (7) concrete pipes; (8) cast (spun) iron pipes; (9) plastic white line material; (10) ground rock salt; (11) galvanised fencing wire, chain link, sheep netting, etc.; (12) Portland cement. The execution of the following works: (13) heating and planing; (14) surface dressing. Documents from L. John Powell, county surveyor, Glamorgan County Hall, Cardiff. Tenders by Jan. 27.

Goole, Yorks.—Following for the year ending March 31, 1961, for B.C.: (1) Broken granite; (2) furnace slag; (3) stone pitching; (4) coated macadam; (5) cold asphalt; (6) refined tar; (7) bitumen (spraying grade); (8) surface dressing; (9) cement; (10) gravel and sand; (11) concrete kerbs and slabs. Documents from Thos. Waterfall, borough surveyor and water engineer, Municipal Offices, Goole. Tenders by Jan. 29.

***Great Yarmouth.**—Supply of materials, for B.C. Tenders by Jan. 29.

Halifax, Yorks.—Supply of the following materials for year ending March 31, 1961, for B.C.: (1) Stone kerb, edging and flags; (2) granite and limestone chippings; (3) cement; (4) broken stone, sand and gravel; (5) earthenware pipes and gullies; (7) precast concrete flags, kerb and edging; (8) tarred and bituminous spraying compounds; (10) tar and bituminous spraying compounds; (13) castings; (14) bricks; (15) fine cold asphalt; (16) ready-mixed concrete. Documents from Borough Engineer, Crossley Street, Halifax. Tenders by Feb. 5.

Harrogate, Yorks.—Supply and delivery of the following for the year ending March 31, 1961, for B.C.: (1) Cement; (2) dry aggregates; (3) sand and gravel; (4) precast concrete kerb and flags; (5) tarmacadam (supply only); (5a) dense tar (supply and machine spreading); (8) (supply only); (7) tarmacadam and bitumen macadam (supply and machine spreading); (7a) dense tar (supply and machine spreading); (8) fine cold asphalt (supply only); (9) fine cold asphalt (supply and machine spreading); (10) tar for surface dressing supplied and sprayed by pressure tankers; (11) bituminous emulsions; (12) brooms; (13) electric lamps; (14) petrol, derv, gas oil and paraffin; (15) overalls; (16) toilet rolls; (17) coal and coke. Documents from C. E. Fellows, borough engineer, Municipal Offices, Harrogate. Tenders by Feb. 12.

Haverhill, Suffolk.—Following for the 12 months commencing April 1, 1960, for U.D.C.: Tarmacadam, Bitumen macadam, asphalt, gravel, ballast, sand, hoggin, tar, bitumen, cold emulsion, concrete kerbs and edging, paving slabs and gully pots, cement, bricks, stone-ware pipes, and dustbins. Documents from the Engineer and Surveyor, Council Offices, Haverhill. Tenders by Feb. 6.

Hereford.—Following for City Council: (1) Plant, tools, etc.; (2) concrete kerb and channel; (3) concrete flags; (4) slag chippings; (5) granite chippings; (6) tarred limestone, asphaltic limestone; (7) tarred granite asphaltic granite; (8) bricks; (9) cement; (10) petrol; (11) cold surface dressing compounds in drums; (12) industrial salt; (13) stoneware pipes; (14) iron castings; (15) local gravel; (16) fine cold asphalt; (17) brooms; (18) coal; (19) hot sur-

facing dressing, emulsion applied by pressure tanker; (20) paint brushes. Documents from F. Margerison, city surveyor, Town Hall, Hereford. Tenders by Feb. 6.

Holland, Lancs.—Following for C.C.: (a) Tarred materials; (b) bituminous materials; (c) dry stone; (d) gravel and sand; (e) concrete products; (f) bitumen emulsions; (g) hire of Barber-Greene finishers and operators; (h) hire of road rollers and haulage; (i) surface dressing; (k) surface dressing, hot chip process; (l) road signs; (m) ground rock salt; (n) heating and planing; (o) ready mixed and lean-mix concrete. Documents from the County Surveyor, County Hall, Boston. Tenders by Feb. 1.

Kingston-upon-Thames, Surrey.—Following for 12 months commencing April 1, 1960, for B.C.: (1) Sand; (2) ballast; (2) tarred limestone; (2) cold asphalt; (2) cold coat 55 per cent; (3) paving stones; (3) concrete kerb; (4) dustbins; (5) toilet rolls; (6) pine disinfectant. Documents from the Borough Surveyor, Guildhall, Kingston-upon-Thames. Tenders by Jan. 25.

Lanarkshire.—Supply of 4,000/5,000 two cu. ft. B.S.S. dustbins with lids to be delivered to various depots, for C.C. Documents from Thomas B. Pollock, County sanitary inspector, Beckford Street, Hamilton. Tenders by Feb. 19.

Littleborough, Lancs.—Supply of the following materials during the year ending March 31, 1961, for U.D.C.: Roadstone chippings and wet-mix; concreting aggregates; coated macadam; flags, kerbs and sets (natural stone); concrete flags and kerbs; earthenware pipes; tar and bitumen compounds; scavenging brushes; road grids and manhole covers; gas coke; salt. Documents from E. N. Crabtree, engineer and surveyor, Council Offices, Littleborough. Tenders by Feb. 13.

Longbenton, Northumb.—Following during the twelve months ending March 31, 1961, for U.D.C.: Schedule 1.—Road materials, flags, etc.; schedule 2.—Plumbing materials and sanitary fittings; schedule 3.—Hardware; schedule 4.—Firebricks, etc. Documents from A. E. Sweetman, engineer and surveyor, Council Offices, Forest Hill, Newcastle upon Tyne, 12. Tenders by Feb. 1.

March, Cambs.—Supply during the year commencing April 1, 1960, of the following materials, for U.D.C.: Tarred slag macadam, granite chippings, ragstone, cold emulsified bitumen, kerbs, channels, paving slabs, pipes, gullies, cement, gravel, sand, bricks, tiled surround fireplaces, coppers, dustbins, Duraduro paint and commercial grade motor spirit. Documents from Engineer and Surveyor, Town Hall, March. Tenders by Feb. 6.

Marple, Ches.—Supply of following, for U.D.C.: (1) Granite chippings; (2) all-in concrete aggregate, washed building sand, quarry and natural sand, sand for road gritting purposes; (3) bituminous macadam, granite and limestone aggregate; (4) cold bituminous emulsions for surface dressing; (5) Portland cement; (6) precast granite aggregate concrete kerb channels and flags; (7) ashes; (8) hire of road rollers; (9) special cast-iron pipes; (10) asbestos-cement pipes; (11) petroleum and diesel oil; (12) tyres; (13) coke. Documents from the Surveyor, Council Offices, Marple. Tenders by Feb. 5.

***Mitcham, Surrey.**—Supply of materials, for B.C. Tenders by Jan. 28.

Morecambe and Heysham, Lancs.—Supply of following, during 1960-61, for B.C.: (1) Cast-iron pipes and specials; (2) cement (all grades); (3) granite chippings; (4) granite concrete flags and kerbs; (5) limestone pitching and crushed limestone; (6) sands, gravels; (7) tarmacadam (all grades); (8) surface dressing by tank sprayer, inclusive of refined hot road tar required; (9) grade 4 rock salt. Documents from Borough Engineer and Surveyor, Town Hall, Morecambe and Heysham. Tenders by Feb. 19.

Northwich, Ches.—Following, during the year ending March 31, 1961, for U.D.C.: Tarmacadam; bitumen macadam; concrete flags; concrete kerbs; crushed dry slag; granite chippings; crushed gravel; grit sand; wetmix; and the purchase of scrap metals. Documents from Engineer and Surveyor, the Council House, Church Road, Northwich. Tenders by Jan. 30.

Newbury, Berks.—Supply of the following for the 12 months commencing April 1, 1960, for B.C.: (1) Tarmacadam; (2) shingle for tarring and concrete ballast; (3) cleaning windows of public buildings; (4) lorry hire; (5) coke and coal. Documents from Borough Surveyor, Municipal Buildings, Newbury. Tenders by Feb. 2.

Redditch, Worcs.—Supply and delivery of the following materials during the year April 1, 1960, to March 31, 1961, for U.D.C.: (1) Tarmacadam; (2) tarred limestone; (3) dry broken stone; (4) washed gravel; (5) concrete kerbs; (6) concrete flags. Documents from Engineer and Surveyor, Council House, Redditch. Tenders by Feb. 12.

Reigate, Surrey.—Supply of materials during the year ending March 31, 1961, for B.C.: Tar-macadam, bituminous carpet, cold asphalt, granite chippings, tar compounds, bitumen emulsions, paving slabs, concrete kerb and edging. Documents from Borough Surveyor, Town Hall, Reigate. Tenders by Jan. 29.

Runcorn, Ches.—Following for twelve months ending March 31, 1961, for U.D.C.: (1) Concrete kerbs, channels and flags; (2) sand; (3) hot spray; (4) bituminous emulsion; (5) bituminous macadam; (6) mechanical tarspraying; (7) gravel; (8) salt glazed ware gullies; (9) street brushes and brooms; (10) petrol and fuel oils; (11) gully gratings and frames; (15) electric lamps; (17) tools; (18) general building materials; (19) stationery (three years). Documents from T. J. Lewis, clerk of the council, Town Hall, Runcorn. Tenders by Jan. 30.

Salford.—Supply of the following, for City Council: Bricks; bitumen macadam (cold and semi-hot); bitumen road emulsion; concrete flags; concrete kerbs; crushed gravel, granite and stone; fine cold asphalt; iron castings; lime and limestone chippings; pitch and creosote oil; Portland cement; ready-mixed concrete; sand; salt-glazed ware pipes; spades and shovels; solder and tallow; tarmacadam. Documents from the City Engineer and Surveyor, Town Hall, Salford, 3. Tenders by Feb. 1.

Scotland.—Following to various hospitals within the region for a period of 12 months commencing April 1, 1960, for South Eastern Regional Hospital Board: 3/R—Uniform clothing; 17/R—crochery and earthenware; 20/R—hardware and ironmongery; 21/R—sheets, reinforced; 41/R—floor polish; 42/R—laundry machine clothing; 43/R—soaps, soap powder and soap flakes; 49/R—cotton blankets. Documents from Co-ordinating Officer, 1 Drumsheugh Gardens, Edinburgh. Tenders by Jan. 21.

Southwark.—Following, for B.C.: (1) Asphalt paving, etc.; (2) ballast, sand, etc.; (3) brooms, brushes, etc.; (4) caps (uniform); (5) clock winding; (6) coal and coke; (7) disinfectants; (8) electric lamps; (9) hydraulic packing ropes, etc.; (10) linen goods; (11) kerb and flagging; (12) motor hire, haulage, etc.; (13) motor oils; (14) oilman's sundries; (15) printing; (16) protective clothing; (17) sewer cast-iron work; (18) soaps, sodas, etc.; (19) stationery; (20) tools, iron, etc.; (21) typewriter maintenance; (22) uniforms; (23) window cleaning; (24) weighbridge maintenance. Documents from the Town Hall, Walworth Road, London, S.E.17. Tenders by Feb. 3.

Staffordshire.—Following materials, etc., for the year ending March, 1961, for C.C.: (a) Bitumen and tarred macadam; (aii) cold asphalt; (aiii) dense tar surfacing; (b) timber fencing; (bi) wire fencing; (bii) continuous iron fencing; (c) dry slag and stone; (ci) clinker ashes; (d) gravel or other chippings; (e) tar, tar compounds, bitumens, cold emulsions and adhesion agent; (f) stone kerbs and setts; (g) concrete kerbs, flags, fence posts, etc.; (h) supplying and/or laying asphalt; (i) glazed stoneware pipes, concrete porous pipes and field drain pipes; (j) paint; (k) traffic signs; (l) tools, rubber boots, cotton waste, etc.; (liii) steel navy barrows; (liv) workmen's overalls; (lvi) gloves; (m) castings and road ironwork; (n) Portland cement; (o) bricks; (p) heating and planing road surfaces; (q) concrete tubes; (r) reflecting roadstuds (supply of); (ri) reflecting roadstuds (fixing); (t) refilling mechanical sweeper brushes; (u) weed killer and grass growth retarder; (v) ready mixed concrete; (w) motor haulage and tractor (daywork) hire; (wi) haulage from quarries; (wii) hire of excavators; (x) plant—(1) 5-ton diesel-engined lorries; (2) road gritting attachments for diesel lorries; (3) snow ploughs for use with diesel lorries; (4) snow ploughs for use with tractors; (5) towing equipment for diesel lorries; (6) 5cwt. motor vans; (7) 10cwt. motor vans; (8) 10-12cwt. petrol-engined light lorries; (9) tractors, diesel-engined; (10) mechanical sweeper; (11) concrete dumpers; (12) footpath rollers; (13) gully emptier; (14) mechanical loader; (15) water cart; (16) excavator; (17) tarsprayer; (18) vibrating rollers; (19) tractor (diesel) complete with loading and excavating equipment; (y) kerb laying by piecework; (yi) kerb laying or upstands, including foundations; (yii) footpath and drainage work; (z) laying plastic road lines and supplying material; (zii) laying pedestrian crossings in mastic asphalt; (ziii) mowing and trimming roadside verges; (ziv) thorn quicks; (zv) drilling and blasting at Hemmingslow quarry; (zvi) coal and coke; (zvii) salt for snow clearance, etc. Documents from County Surveyor, County Buildings, Stafford. Tenders by Jan. 29.

Stockport, Ches.—Following for a period of 12 months from April 1, 1960, for B.C.: Road materials: (1) Stone flags, kerbs and setts; (2) concrete flags and kerbs; (3) bituminous macadam; (4) cold emulsion; (5) pitch, creosote oil and refined tar; (6) granite chippings; (7) lime-

stone chippings and lime ash; (8) crushed gravel; (9) portland cement (10) washed sand; (11) iron castings; (12) stoneware pipes, etc. Street lighting equipment: (13) Electric lamps; (14) lanterns, chokes, capacitors and electric time switches; (15) gas mantles. Documents from Borough Surveyor, Town Hall, Stockport. Tenders by Jan. 30.

***Stoke-on-Trent, Staffs.**—Supply of materials, for City Council. Tenders by Feb. 1.

Sunderland.—Supply of hardware for 206 dwellings, Howick Street, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by Jan. 21.

Surrey.—Following for 12 months commencing April 1, 1960, for C.C.: (1) Cement; (2) refined tar; (3) bitumen; (4) bitumen emulsions; (5) broken granite; (6) broken limestone; (7) crushed slag for tarred and bituminous macadam; (8) concrete pipes and gullies; (9) precast concrete kerbs and edgings; (10) coarse, fine and all-in aggregate for concreting purposes; (11) shingle for surface dressing purposes; (12) tar and bitumen macadam and gravel and cold asphalt; (13) filler; (14) brooms (bahia and plastic); (15) mechanical haulage; (16) heating and planing road surfaces; (17) fixing Catseye reflecting studs; (18) plastic white lines; (19) surfacing carriageways with filled bitumen and dry stone chippings; (20) hedge trimming and grass cutting (Guildford and Bagshot Rural District). Documents from County Engineer, County Hall, Kingston-upon-Thames. Tenders by Jan. 23.

Todmorden, Lancs.—Supply of following materials during the period April 1, 1960, to March 31, 1961, for B.C.: (1) Dry or coated granite or slag; (2) dry or coated limestone; (3) bituminous emulsions; (4) concrete kerbs and flags; (5) stone setts; (6) sand; (7) stone-ware pipes; (8) salt; (9) ironwork; (10) cement. Documents from Borough Engineer, Municipal Offices, Rise Lane, Todmorden. Tenders by Feb. 1.

Up Holland, Lancs.—Supply of the following materials for the 12 months commencing April 1, 1960, for U.D.C.: (1) Clean granite chippings; (2) concrete flags, kerbs, edgings, etc.; (3) tar and tar compound; (4) bitumen cold emulsion in barrels; (5) tar macadam and bituminous macadam (granite, limestone and slag); (6) wet-mix; (7) precast granite chippings; (8) hot mix macadam; (9) cold asphalt and sealing grit; (10) concreting sand and gravel; (11) local stone; (12) hire of road roller; (13) hire of tractor for snow clearing; (14) hired haulage. Documents from J. T. Iball, engineer and surveyor, Municipal Buildings, Up Holland, near Wigan. Tenders by Feb. 15.

Westmorland.—Supply of 300,000 gallons (more or less) of refined tars, tar compounds, bitumens and bituminous emulsions for use on the County roads during the year ending March 31, 1961, for C.C. Documents from County Surveyor, County Hall, Kendal.

Whitefield, Lancs.—Following materials for the 12 months ending March 31, 1961, for U.D.C.: (1) Green coppers; (2) limestone chippings; (3) tarred limestone chippings; (4) granite bituminous macadam; (5) limestone bituminous macadam; (6) bituminous hot spray and cold emulsion; (7) concrete flags; (8) concrete edging and channel; (9) flagrock kerb and edging; (10) flagrock channel; (11) rubble and slag pitching or similar material, concreting stone and sand; (12) sanitary pipes; (13) Portland cement; (14) ironwork; (15) ready mixed concrete; (16) protective clothing. Documents from the Engineer and Surveyor's Department, Town Hall, Whitefield. Tenders by Jan. 30.

Worcester.—Tenders are invited for the supply of the following materials for the year ending March 31, 1961: (1) Cement; (2) concrete flags, kerbs, etc.; (3) crushed gravel and sand; (4) granite chippings; (5) bitumen macadam; (6) builders' sundries; (7) painters' sundries; (8) petrol and fuel oils. Documents from City Engineer and Surveyor, 22 Bridge Street, Worcester. Tenders by Feb. 1.

MISCELLANEOUS

Great Yarmouth.—Supply and installation of communal television aerial systems to the following: (a) Nine dwellings, Addison Road; (b) 25 dwellings, Charter Close; (c) 46 dwellings, Caister Road. Documents from the Borough Engineer, Town Hall, Great Yarmouth. Tenders by Jan. 19.

PLANT AND MECHANICAL TRANSPORT

Bradford, Yorks.—Supply of the following for Corporation Waterworks: One Morris Oxford saloon car; one Humber Hawk saloon car; one Hillman Minx estate car; two Broomwade type WR 120 air compressors. Documents from Waterworks Engineer, 50 Darley Street, Bradford, 1. Tenders by Jan. 23.

***Bridlington, Yorks.**—Supply of pumping plant, for B.C. Deposit £2 2s. Tenders by Feb. 5.

Camborne and Redruth, Corn.—Supply of the following, for U.D.C.: (a) One diesel engined Bedford six-ton tipper; (b) one petrol engined Bedford three-ton chassis/cab, fitted with Spenborough 4 cu. yd. body and hydraulic tipping gear; and 750 x 16 10-ply tyres; (c) one Bedford 90in. wheelbase dropside truck with Walker body. Tenders should include for delivery, number plates, painting and lettering, and for calibration and stamping of vehicles (a) and (b). The bodies of vehicles (a) and (b) are to be fitted with one-eighth inch steel bottoms and 18g. steel lining to head, sides and tail; vehicle (c) is to have 18g. steel bottom and lining. The following vehicles which are to be taken in part exchange can be inspected by arrangement with the Council's Engineer and Surveyor: 1952 Bedford 4/5-ton tipper; 1949 Bedford 2/3-ton truck fitted with hydraulic tipping gear; 1949 Fordson 2/3-ton truck fitted with hydraulic tipping gear. Tenders to S. C. Wilson, clerk to the Council, Council Offices, Camborne, by Jan. 30.

Colwyn Bay, Denbighs.—Supply of following, for B.C.: (a) One 5/3 concrete mixer; (b) one lift and force 3in. mud pump. Documents from Borough Engineer, Whalley Range, Lansdowne Road, Colwyn Bay.

Cosford, Suffolk.—Supply of a new Ford 7cwt. van and the purchase in part exchange of one Ford 5cwt. van (1954), for B.C. The vehicle for disposal will be made available for inspection by arrangement with the Surveyor. Tenders to C. A. Durrant, clerk to the Council, Council Offices, 32 High Street, Hadleigh, near Ipswich, by Jan. 20.

Dagenham, Essex.—Supply of one Karrier Bantam tipper, for B.C. Documents from Borough Engineer, Civic Centre, Dagenham. Tenders by Jan. 27.

Hastings, Sussex.—Following, for B.C.: (a) Supply and maintenance of one gully/cesspool emptier; (b) diesel engine conversion and maintenance of existing gully/cesspool emptier; (c) maintenance or servicing of one Morris 1000 car. Documents from Borough Engineer, 37 Wellington Square, Hastings. Tenders by Jan. 28.

***Hemel Hempstead, Herts.**—Supply of plant, for B.C. Tenders by Feb. 1.

Isle of Ely.—Supply of an Atco motor-mower, to Glennfield House, Wisbech old person's home, for C.C. Documents from R. F. G. Thurlow, clerk of the County Council, County Hall, March. Tenders by Feb. 1.

Kesteven.—Following new plant, for C.C.: Two 6-ton diesel Bedford lorries; two 15cwt. vans; one 14/10 diesel concrete mixer; three 6cwt. vibratory rollers; one J.C.B. Hydra-Digga/Loadall 65 and equipment. Documents from the County Surveyor, County Offices, Sleaford, Lincs. Tenders by Jan. 25.

Lancaster.—Supply and installation of the following electrically driven centrifugal pumping plant for dealing with water abstracted from the river, for City Council: (1) Three low-lift pumps—two pumps working together to be capable of dealing with alternative flows of 3,050 g.p.m. and 4,500 g.p.m. each; (2) three high-lift pumps—two pumps working together to be capable of dealing with alternative flows of 2,778 g.p.m. and 4,167 g.p.m. each. Documents from City Engineer, Town Hall, Lancaster. Deposit £2. Tenders by Feb. 10.

Swansea.—Supply and delivery of one Morris J2 van and one Land-Rover, for B.C. Documents from the Engineer and Surveyor (Room 319), Guildhall, Swansea. Tenders by Jan. 19.

PLAYING FIELDS, PARKS, ETC.

Crewe, Ches.—Erection of a floral court in the Crewe Cemetery, contract 561, for B.C. Documents from Fred. Merrill, engineer and surveyor, Municipal Buildings, Crewe. Deposit £2 2s. Tenders by Feb. 5.

Isle of Wight.—Improvements to a portion of the site (i.e., mainly turfing) at the Isle of Wight Technical College, Hunnyhill, Newport, I. of W., for C.C. Applications to the County Architect, County Hall, Newport, I. of W., by Jan. 22. Deposit £1 is., payable to C.C. Tenders by Feb. 17.

Twickenham, Middx.—Reconstruction of two existing tennis courts to non-attention courts, including underdrainage and chain link surround at Moormede Recreation Ground, for B.C. Documents from Borough Engineer, Municipal Offices, Twickenham. Deposit £1 is. Tenders by Feb. 2.

***Wellington, Shrops.**—Bowring recreation ground extension, stage two, for U.D.C. Deposit £2 2s. Tenders by Feb. 8.

West Riding.—Following, for C.C.: Grading and levelling grounds and erection of porch, at rear of Knottingley Chapel Street Infants' School, for Knottingley Child Welfare Centre, Chapel Street, Knottingley. Applications to County Architect, Bishopgarth, Westfield Road, Wakefield, by Jan. 25. Tenders by Feb. 8.

RIVER AND FLOOD PREVENTION WORKS

***Cambridge.**—Flood protection scheme, for Great Ouse River Board. Deposit £20. Tenders by March 18.

ROADS, BRIDGES AND SITE WORKS

Andover, Hants.—Making-up of The Close, Hatfield, for R.D.C. Documents from Engineer and Surveyor, Council Offices, Junction Road, Andover. Tenders by Jan. 21.

Antrim.—Widening of entrance roadway and provision of fencing at Greenmount Agricultural College, Muckamore, for Ministry of Finance Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by Jan. 20.

Antrim.—Following for C.C.: Construction of between 3½ and 4 miles of new 27ft. carriageway on the Belfast-Larne Road, between the new sections already completed at Ballynure and Houston's Corner. The works include the realignment of County and District roads at their junction with the Trunk Road. Documents from County Surveyor's Office, County Courthouse, Crumlin Road, Belfast. Deposit £10 10s. Tenders by Feb. 5.

Ashton-under-Lyne, Lancs.—Paving of main footpaths on Lord's Fields housing estate, in 2½ in. precast concrete flags, for B.C. Documents from Borough Surveyor, Municipal Offices, Ashton-under-Lyne. Tenders by Jan. 20.

Baildon, Yorks.—Making up of Hinchliffe Avenue, for U.D.C. Documents from the Surveyor, Town Hall, Baildon. Tenders by Jan. 29.

Barnet, Herts.—Roadworks, Whittings Hill housing estate, for U.D.C. Tenders by Jan. 23.

Beddington and Wallington, Surrey.—Making-up of 232ft. of the private street, Sandhills, for B.C., comprising the construction of approximately 570 sq. yd. carriageway with bitumen macadam surfacing, kerbing, artificial stone paving to footways, and grass verges. Documents from Borough Engineer and Surveyor, Town Hall, Wallington. Tenders by Feb. 8.

Bedfordshire.—Widening trunk road between Priory Farm and Turvey Railway Bridge, for C.C. Deposit £2. Tenders by March 4.

Bognor Regis, Sussex.—Coach park in London Road, for U.D.C. Tenders by Feb. 1.

Bristol.—Widening Holmes Hill Road, for City Council. Tenders by Feb. 12.

Burnley Lancs.—Taking up and re-laying of approx. 3,300 sq. yd. of precast concrete flagging and the provision of footpath crossings in Casterton Avenue, for B.C. Documents from the Borough Engineer and Surveyor, 22-24 Nicholas Street, Burnley. Tenders by Jan. 20.

***Cambridgeshire.**—Roadworks contract 5920, for C.C. Tenders by Jan. 30.

Cardiff.—Site works at Hollybush estate, Whitchurch, for R.D.C. Preparing, levelling and clearing site, sowing grass seed, lopping and pruning trees and planting trees and shrubs and approximately 144yd. of fencing. Documents from Engineer and Surveyor, 20 Park Place, Cardiff. Deposit £1 1s. Tenders by Jan. 19.

***Caterham and Waringham, Surrey.**—Resurfacing Limpfield Road, for U.D.C. Tenders by Jan. 29.

***Corby, Northants.**—Car park and access road, for U.D.C. Deposit £1, cheques payable to U.D.C. Tenders by Feb. 10.

Cumberland.—Lilly Hall-Cockermouth-Thursby class I road, A.595, improvement at Speetgill, for C.C., comprising the widening and realignment of the existing carriageway from a point 150yd. east of the junction with the Penrith-Wigton class II road, B.5350, at Street, to a point 100yd. west of the junction with the Wigton-Brackenthwaite unclassified road, including the construction of new carriageway on embankment, for which 50,000 cu. yd. of imported fill material is required, the construction of a reinforced concrete box culvert 134ft. long, drainage, fencing and ancillary works. Documents from County Surveyor and Bridgemaster, Citadel Chambers, Carlisle. Deposit £5. Tenders by Feb. 6.

Cumberland.—Improvement at Speetgill on Lilly Hall-Cockermouth-Thursby class I road A.595, for C.C. Works comprise the widening and realignment of the existing carriageway from a point 150yd. east of the junction with the Penrith-Wigton class II road B.5305 at Street, to a point 100yd. west of the junction with the Wigton-Brackenthwaite unclassified road including the construction of new carriageway on embankment, for which 50,000 cu. yd. of imported fill material is required, the construction of a reinforced concrete box culvert 134ft. long, drainage, fencing and ancillary works. Documents from County Surveyor, Citadel Chambers, Carlisle. Deposit £5. Tenders by Feb. 6.

***Dagenham, Essex.**—Roads and sewer works, Fowler Road, for B.C. Deposit £2 2s. Tenders by Feb. 6.

***Derbyshire.**—Widening Gildwells Lane, for C.C. Deposit £2, cheques payable to C.C. Tenders by Feb. 1.

***Derbyshire.**—Road improvement works at Red Hill, for C.C. Deposit £5 (cheques payable to C.C.): Tenders by Jan. 26.

***Dudley, Worcs.**—Resurfacing new Rowley Road, for B.C. Deposit £5 5s. Tenders by Jan. 28.

Dunfermline.—Construction of a new roadway, approximate length 275 lin. yd., between Low Beverdewell and Pilmuir Street, for City Council. The work comprises the laying of approx. 2,100 sq. yd. of 8 in. thick reinforced concrete carriageway with 3 in. asphalt surfacing, with kerbs, granolithic footpaths, the construction of a reinforced concrete culvert, surface water drainage, and ancillary works. Applications to the Burgh Engineer, 7 Abbot Street, Dunfermline, by Jan. 20.

Eastleigh, Hants.—Construction and completion of roadworks at Grosvenor Road, Chandlers Ford, for B.C. Documents from Borough Engineer, Town Hall, Eastleigh. Deposit £2 2s. Tenders by Feb. 8.

***Epping and Ongar, Essex.**—Road works at proposed cemetery, for R.D.C. Apply by Jan. 22. Deposit £2 2s.

***Fareham, Hants.**—Construction of tennis court, for U.D.C. Tenders by Jan. 25.

Galway, Eire.—Construction of the bridge over the River Killimor at Hearnbrook, near Killimor, for C.C., comprising (a) construction of new reinforced or prestressed concrete bridge of 45ft. 9 in. clear span and parapets; (b) construction of mass concrete retaining walls and boundary walls. Document from F. S. Rishworth, 29 Leeson Park, Dublin. Deposit £26 5s. Tenders by Feb. 15.

***Harwich, Essex.**—Widening and improvement of Low Road, for B.C. Deposit £2 2s. Tenders by Feb. 6.

***Heston and Isleworth, Middx.**—Road works, Spring Grove Road, for B.C. Deposit £2 2s. Tenders by Feb. 5.

***Holland, Lancs.**—Reconstruction on route A.17, for C.C. Deposit £2. Tenders by Jan. 25.

***Horsham, Sussex.**—Compton Lane improvement, for U.D.C. Tenders by Jan. 18.

***Ilford, Essex.**—Site development works stage 1, for B.C. Deposit £2 2s. Tenders by Jan. 26.

***Kingston-upon-Thames, Surrey.**—Supply plastic white lines, for B.C. Deposit £2 2s. Tenders by Jan. 26.

Lancashire.—Construction and completion of roadworks in the undermentioned private streets, for C.C.: Kingsway (part of), Penwortham, Preston Rural District; Rose Street (part of), Farington, Preston Rural District. Plans seen at County Surveyor's Office, County Hall, Preston. Documents from County Surveyor and Bridgemaster, P.O. Box 9, Preston. Deposit £2, cheques payable to C.C. Tenders by Jan. 29.

***Leatherhead, Surrey.**—Resurfacing footways, for U.D.C. Tenders by Jan. 21.

***Long Eaton, Derbys.**—Resurfacing Longmoor Road, for U.D.C. Tenders by Jan. 30.

Luton, Beds.—Construction of approximately 300yd. concrete tube culvert, including excavation and concrete surround, at Wigmore Bottom, for B.C. Documents from Borough Engineer, Town Hall, Luton. Deposit £2 2s. (cheques payable to Corporation). Tenders by Jan. 28.

***Manchester.**—Runway extension stage two, for City Council. Tenders by Jan. 21.

***Manchester.**—Supply and laying bituminous rolling course, for City Council. Tenders by Feb. 2.

***Monmouthshire.**—Improvement to road between Llantarnam and Cwmbran Cemetery entrance, for C.C. Deposit £10, payable to C.C. Tenders by Feb. 10.

Newport Pagnell, Bucks.—Reconstruction of the carriageway and the construction of a new footway in Broad Street, for U.D.C., comprising the laying of about 2,200 sq. yd. of reinforced concrete carriageway, 350 lin. yd. of precast concrete kerbing, 800 sq. yd. of precast concrete paving slabs and 350 lin. yd. of concrete surface water sewer, together with manholes and other ancillary works. Documents from Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester. Deposit £5 5s. Tenders by Feb. 2.

***Northumberland.**—Application of road tar, for C.C. Tenders by Jan. 27.

Northwich, Ches.—Construction of approximately 130 super. yd. tarmacadam surfacing in the form of a turning circle at Nixon Road in the parish of Cuddington, for R.D.C. Documents from Engineer and Surveyor, Whitehall, Hartford, Northwich. Deposit £2 2s. Tenders by Feb. 4.

***Nottinghamshire.**—Bridgeworks in Nottinghamshire, for C.C. Deposit £10. Tenders by March 11.

***Nuneaton, War.**—Bridge Street improvement, for B.C. Deposit £2 2s. Tenders by Feb. 6.

***Oxfordshire.**—Surface dressing of roads, for C.C. Tenders by Feb. 17.

Oxford.—Construction of roads, sewers, footpaths and verges on part IIB of Blackbird Leys housing estate, for City Council. The work involves the construction of approximately 1,850 lin. yd. new roads with lean-mix concrete base and asphalt-wearing course to carriageways; 3,200 lin. yd. of foul and surface water sewers, varying from 4 in. to 21 in. diameter with necessary manholes; site clearance and ancillary works. Applications to J. Campbell Riddell, city engineer, Town Hall, Oxford.

***Portsmouth-by-Sea, Sussex.**—Widening Old Shoreham Road, for U.D.C. Deposit £2 2s. Tenders by Jan. 22.

Prestwich, Lancs.—Laying approximately 6,400 sq. yd. of lin. thick fine cold asphalt with pre-coated chippings, for B.C. Documents from the Borough Engineer, Town Hall, Prestwich. Deposit £2 2s. Tenders by Jan. 25.

Reigate, Surrey.—Construction of a car park extension, Nursery Garden, Reigate Priory, for B.C. Documents from Borough Surveyor, Town Hall, Reigate. Tenders by Jan. 23.

***Ruislip and Northwood, Middx.**—Highway works at Eastcote, for U.D.C. Deposit £2 2s. Tenders by Feb. 3.

Runcorn, Ches.—Following for U.D.C.: construction of approx. 12,000 sq. yd. of concrete flag paving, 2,300 sq. yd. grass verge and 1,900 lin. yd. concrete edging in Grange-way Festival Way, Cedar Avenue, Cypress Grove, Laburnum Grove, Larch Road, Oak Drive, Pear Tree Avenue, Pine Road, Poplar Avenue and Thorn Road. Documents from the Surveyor, Town Hall, Runcorn. Deposit £2 2s. Tenders by Feb. 11.

***Somerset.**—Supply of Scotchlite traffic signs, for C.C. Tenders by Feb. 1.

Southwell, Notts.—Construction of roads, surface water sewers, septic tanks, filter and water mains on the South Muskham housing site, for R.D.C. Documents from K. Dyson, engineer, 7 Westgate, Southwell. Tenders by Feb. 1.

***Surrey.**—Road improvement in Maple Road, for B.C. Tenders by Jan. 22.

***Uttoxeter, Staffs.**—Roads and sewers at Heath House estate, for U.D.C. Deposit £3. Tenders by Jan. 29.

Wandsworth.—Supply and delivery of approximately 150 signs, posts, etc., for B.C. Documents from the Borough Engineer, Municipal Buildings, Wandsworth, S.W.18. Tenders by Feb. 3.

Wellington, Salop.—Advance preparation of housing site, Oakengates Road, Donnington, for R.D.C. Work comprises levelling work, 10,250 cu. yd. earthmoving, laying 2,800 lin. yd. foul and surface water sewers with 38 manholes, and construction of 11,000 sq. yd. pitched and tarmacadam carriage and footways. Applications to Bond, Foster and Partners, 6 Walker Street, Wellington, by Jan. 18. Deposit £3 3s.

West Bromwich, Staffs.—Reconstruction and widening of Swan Bridge, West Bromwich, over the Wednesbury Old Canal and the laying of a 21 in. diameter sewer under the canal, for B.C. Applications to L. G. Mouchel and Partners, 38 Victoria Street, London, S.W.1, by Feb. 3. Deposit £5 5s., payable to L. G. Mouchel and Partners. Tenders by March 3.

Westmorland.—Spraying approximately 100,000 gallons of tar or bitumen on roads in the north-western division of Westmorland, for C.C. Documents from County Surveyor, County Hall, Kendal.

Wilmslow, Ches.—Making-up Capethorne Road, for U.D.C. The works are comprised of approximately 270 super. yd. of carriageway shaping and surfacing, 90 lin. yd. of kerb and channel, footway and appurtenant works. Documents from the Engineer and Surveyor, Council Offices, Green Hall, Wilmslow. Deposit £2 2s. (cheques). Tenders by Jan. 22.

***Wycombe, Bucks.**—Construction of a car park, for R.D.C. Tenders by Feb. 22.

Witney, Oxon.—Church Lane/Stanton Harcourt Road reconstruction, for U.D.C. Work comprises reconstruction and surfacing of approx. 2,360 sq. yd. of carriageway in tarmacadam and provision of 1,180 sq. yd. of concrete footpaths together with kerbing, surface water drainage and other ancillary works. Documents from Engineer and Surveyor, 26 Church Green, Witney. Deposit £2 2s. Tenders by Jan. 19.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

***Bradford and Melksham, Wilts.**—Sewington Road sewerage scheme, for R.D.C. Deposit £2 2s. Tenders by Feb. 5.

***Cambridgeshire.**—Surface water sewers, contract 5919, for C.C. Tenders by Jan. 29.

***Droxford, Hants.**—Bishop's Waltham sewerage and sewage disposal, contract 1, for R.D.C. Deposit £5 (cheques payable to R.D.C.). Tenders by Feb. 22.

***Glastonbury, Som.**—Sewage pumping plant, for B.C. Tenders by Feb. 1.

***Ilkley, Yorks.**—Construction of humus tanks, for U.D.C. Tenders by Feb. 6.

***Kiveton Park, Yorks.**—Following, for R.D.C. Construction of about 1,080 lin. yd. of 9 in. and 1,250 lin. yd. of 6 in. diameter concrete tube sewers with appurtenant manholes together with the construction of a small sewage ejector station in the parish of Harthill with Woodall. Documents from Elliott and Brown, consulting engineers, Stanley House, Pelham Road, Nottingham. Deposit £5 5s., cheques payable to R.D.C. Tenders by Feb. 15.

***Melksham, Wilts.**—Construction of sewage lift and main drainage, Semington Road, for U.D.C., comprising the construction of a sewage lift, the laying of 230 lin. yd. of 12 in. concrete tubes and 70 lin. yd. of 5 in. cast-iron spun pipes, together with ancillary works. Applications to M. Robinson, engineer and surveyor, Town Hall, Melksham, by Jan. 16.

***Narberth, Pems.**—Construction of Llanddewi Velfrey sewerage and sewage disposal scheme, for R.D.C. The work comprises of supplying, laying and jointing approx. 2,500 lin. yd. of 6 in. diameter concrete tube sewers with 4 in. diameter glazed stoneware pipe house connections, 36 precast concrete manholes, with sewage disposal and other contingent works. Documents from J. Owen Parry and Lewis, consulting engineers, Ammanford. Deposit £3 3s. Plans also seen at the offices of the Council, Narberth. Tenders by Feb. 4.

***Newbury, Berks.**—Supply and installation of three electrically driven vertical spindle suspended axial flow propeller pumps, each capable of dealing with 2,014 gallons per minute, for B.C. Documents from Borough Surveyor, Municipal Buildings, Newbury. Tenders by Feb. 6.

***Pickering, Yorks.**—Sinnington sewerage and sewage disposal scheme, for R.D.C. Deposit £5 5s. Tenders by Jan. 30.

***Preston, Lancs.**—Longton and district sewerage, contract 4, for R.D.C. Construction of following: (1) Approximately six miles of main sewers, varying in size from 9 in. to 15 in. in diameter; (2) manholes and appurtenant works; (3) two sub-pumping stations together with spun-iron pumping mains; (4) approximately five miles of 4 in. and 6 in. diameter House drains together with inspection chambers, etc.; (5) the restoration of all surfaces. Documents from Charles J. Lomax and Son, engineers, 68 Barton Chambers, Barton Arcade, Deansgate, Manchester, 3. Deposit £5 5s., cheques payable to R.D.C. Tenders by Feb. 11.

***Walsingham, Norfolk.**—Construction of a filter bed and effluent drain at the housing estate Copy's Green, Wighton, for R.D.C. Documents from the Housing Officer, Council Offices, Baron's Hall, Fakenham. Tenders by Jan. 30.

STREET LIGHTING

***Alfreton, Derbys.**—Installation of 118 lighting units, for U.D.C. Deposit £2 2s. Tenders by Jan. 28.

***Amesbury, Wilts.**—Street lighting trunk road A.303, for Parish Council. Tenders by Jan. 27.

***Brighouse, Yorks.**—Supply and delivery of mercury discharge and tungsten filament lamps of various sizes, for B.C. Documents from Borough Engineer, Commercial Street, Brighouse. Tenders by Feb. 8.

***Enfield, Middx.**—Public lighting improvements, for B.C. Deposit £2. Tenders by Jan. 25.

***Glamorgan.**—Supply, erection and putting into service of eight 140-W sodium lighting units at the roundabout on route A.48 London-Fishguard trunk road at its junction with route A.4050 at Cilverhouse Cross, for C.C. Documents from E. John Powell, county surveyor and planning officer, Glamorgan County Hall, Cardiff. Tenders by Jan. 25.

***Mitcham, Surrey.**—Removal and disposal of gas street lighting equipment, for B.C. Tenders by Jan. 30.

***Renfrewshire.**—Following, for C.C.: (a) Trunk road A.77; Stage 1—Glasgow burgh boundary to Eastwood Toll; stage 2—Eastwood Toll to Mallettsheugh Inn. Supply and erection of the following street lighting equipment: Stage 1—Forty-one lanterns for use with long type sodium vapour discharge lamps giving a minimum output of 20,000 lumens; to be mounted at 35ft. on steel columns having an outreach of 9ft. with ancillary control gear housed in the base compartment of the columns; Stage 2—Two hundred and four lanterns for use with long type sodium vapour discharge lamps giving a minimum output of 20,000 lumens; to be mounted at 35ft. on steel columns having an outreach of 9ft. with ancillary control gear housed in the base compartment of the columns. For stage 2 the successful contractor will be required to phase the erection work with the progress of roadworks, which consist of the construction of dual carriageways, on this length of trunk road. (b) Class I and class II roads: Stage 1—Rouken Glen Road, Giffnock and Thornlie-

bank: Stage 2—Speirsbridge Road, Main Street, Thornliebank; supply and erection of the following street lighting equipment: Stage 1—Forty-five lanterns for use with 140-W sodium vapour discharge lamps to be mounted at 25ft. on steel columns having an outreach of 4ft. with ancillary control gear housed in base; Stage 2—Forty-four lanterns for use with 140-W sodium vapour discharge lamps, to be mounted at 25ft. on steel columns having an outreach of 4ft. with ancillary control gear housed in base. Applications to the District Clerk, First District Council, County of Renfrew, 295 Fenwick Road, Giffnock, Renfrewshire. Tenders by Jan. 29.

***Staffordshire.**—Provision of a system of street lighting on Watling Street trunk road, A.5, at Fazeley Roundabout, for C.C. The system will comprise eight lighting points, utilising linear sodium lamps, and the work also entails the dismantling and taking down of three existing columns and equipment. Documents from the County Surveyor, County Buildings, Stafford. Tenders by Jan. 25.

***West Suffolk.**—Barton Mills roundabout lighting, for C.C. Tenders by Feb. 5.

AWARDS

BUILDING AND DECORATING

(See also Housing Schemes)

***Accrington, Lancs.**—Extension to offices in Ramsbottom Street, for Finch Watson, Ltd.; Direct Labour. Estimated cost £2,000-£3,000.

***Amble, Northumb.**—Erection of club premises, for Amble British Legion Club. C. Solomon, architect, 30 St. Mary's Place, Newcastle upon Tyne: R. and G. Brown, Ltd., 34 Albert Street, Amble, £30,000. Work commenced.

***Andover, Hants.**—Erection of eight garages at Greeney, Appleshaw, for R.D.C.: Eades Bros., Ltd., Charlton, Andover, £732.

***Ashton, Lancs.**—Erection of new hotel, March Hare, Crowhill Road, for Frederick Robinson, Ltd. A. H. Lee, staff architect: Dean and Whipp, Ltd., Clarendon Road, Hyde.

***Birmingham.**—Following works, for City Council. A. G. Sheppard Fidler, city architect: Second stage of improvements to Quinton Hall—C. Green and Sons, Ltd., 132 Monument Road, Birmingham, 16, £31,646; alterations and extensions at 40 Somersset Road, Handsworth—A. Franklin and Sons, Ltd., 44 Hamstead Road, Handsworth, Birmingham, 19, £32,182; construction of nursery unit at Greenmeadow Primary School—F. Davis (Builders), Ltd., College Road, Moseley, Birmingham, 13, £13,760; erection of gymnasium block at Harrison Barrow Girls' Grammar School—S. F. Swift and Sons, Ltd., Alcester Street, Birmingham, 12, £32,990; extensions to Ilmington Boys' and Girls' Schools—J. Bowen and Sons, Ltd., 27-28 George Street, Balsall Heath, Birmingham, 12, £18,496; sub-division of floor areas at Scottish Life Assurance Building, 154-155 Great Charles Street—C. Bryant and Son, Ltd., 65 Whitmore Road, Small Heath, Birmingham, 10, £24,971; provision of eight temporary shops at Aston Lane—Direct Labour, £8,048.

***Blackburn, Lancs.**—Erection of sports pavilion on Whitebirk Playing Fields, for B.C.: H. Ibbotson and Sons, Ltd., Blackburn (recommended).

***Bristol.**—Improvements, repairs and redecoration to the following property, for City Council: 10, 12 and 14 King Street, Avonmouth—F. J. Cantle, 25 Calcott Road, Bristol, £2,767; 19 and 25 Avon Crescent, Hotwells—Lewis Quantick and Co., Ltd., 34 Chandos Road, Bristol, 6, £1,071 (recommended); 59, 60 and 61 Richmond Villas, Avonmouth, 1 Richmond Terrace, Avonmouth, and 48 Ashton Road, Bedminster—Direct Labour (recommended). Estimated cost £2,823, £856 and £750, respectively.

***Builth, Brecons.**—Improvements to 12 Caerllan houses at Llanwrthwl, for R.D.C.: Ernest Deacon, Ltd., Kingston, Leominster, Here., £624.

***Camberwell.**—Construction of a 60ft. high chimney and ancillary works in connection with installation of a new incinerator at Peckham Park Road Depot, for B.C.: Dancks of Netherpton, Ltd., £2,432 (recommended, subject to Ministry approval).

***Chelmsford, Essex.**—Erection of a sports pavilion at Coronation Park, for B.C.: J. W. Izard and Co., Ltd., Joette Wellands, Wickham Bishops, Witham, £6,058 (recommended, subject to Ministry approval).

***Cheshunt, Herts.**—Erection of 32 lock-up garages with the necessary ancillary works on three separate sites, contract 367, for U.D.C. A. A. Hamilton, engineer: Bell and Webster (Contractors), Ltd., Essex, Road,

Hoddesdon, Herts., £5,267 (accepted); Cawood Wharton and Co., Ltd., £5,333; S. James and Sons, Ltd., £6,007; Portable Concrete Buildings, Ltd., £6,118; Concrete Utilities, Ltd., £6,438. Work about to commence.

***Doncaster, Yorks.**—Following works, for B.C.: Provision of two children's homes on the Cantley estate—Corneil and Sons, 12 Church Lane, Bessacarr, Doncaster, £8,106; hostel on the Cantley estate—Beckett and Wood (Builders), Ltd., 18 Cemetery Road, Doncaster, £32,664 (both recommended).

***Dunely, Yorks.**—Following works, for B.C.: Erection of an old persons' home at Dunely Wood Road—J. Hickman and Son (Brierley Hill), Ltd., Brockmoor, Brierley Hill, £22,682; further five garages at Russell's Hall estate—Tomlinson Bros. (Seagey), Ltd., Bulston Street, Seagey, £910; construction of a retaining wall in front of 34 to 36 Four Wines Road—I. Payne and Sons, Ltd., 31 Chureneid Street, Dunely, £566 (recommended).

***Durham.**—Improvements to sanitation and the erection of a staff room at Leagate County Infants' School, for C.C.: Robert Gallacner, Ltd., Laournum Avenue, Blackhill, Co. Durham, £2,179.

***Elgin, Morays.**—Erection of the new Town Hall, for B.C.: Alexander Hall and Son (Builders), Ltd., Granite Hill Road, Northfield, Abergreen, £84,442 (subject to Ministry approval).

***Glasgow.**—Erection of a departmental store between Jamaica Street and St. Enoch Square, for House of Fraser, Ltd., 12 Buchanan Street, Glasgow, Gordon Jeeves, architect, 61 Catherine Place, London, S.W.1; C. E. Ball and Partners, quantity surveyors, 36 Fitzroy Square, London, W.1; George Davie, Crawford and Partners, consulting structural engineers, 26 Woodside Place, Glasgow, C.; Winton Thorpe and Tunnadine, consulting engineers, 100 Victoria Street, London, W.1; Leslie and Co., Ltd., Peel Street, London, W.8.

***Glasgow.**—Erection of a six-storey block of 33,000 sq. ft. at Waterloo Street, for Waterloo Property Co. (Glasgow), Ltd. Baron Bercott, architect, 118 Blythswood Street, Glasgow; James Laidlaw and Sons, Ltd., Dalmarnock Road, Rutherglen. Estimated cost £500,000.

***Glasgow.**—Extension to shop premises at the junction of Argyle Street and Union Street, for Boots Pure Drug Co., Ltd., Station Road, Nottingham. C. St. C. Oakes, staff architect. Gleds, quantity surveyors, 7 Clinton Terrace, Nottingham; Bovis, Ltd., 1 Stanhope Gate, London, W.1. Estimated cost £400,000.

***Hendon, Middx.**—Remedial work to settlement fractures at 151 to 157 Bittacy Hill, for B.C.: Pynford, Ltd., Stroud Green, London, N.4, £1,470 (recommended).

***Huddersfield, Yorks.**—Alterations to Briarcourt, Lindley, home for aged persons, for B.C.: G. Thompson and Son, Spring Street, Huddersfield.

***Inverness.**—Retiling a portion of the vertical walls of the swimming pool, for B.C.: Jas. Scott and Son, 6-12 Princes Street, Perth.

***Leeds.**—Erection of sports pavilions at Western Flatts Park and Osmonthorpe recreation ground, for City Council: Spooner (Hull), Ltd., Glebe Road, Stoneterrry, Hull, £2,536 and £1,998, respectively (recommended).

***Liverpool.**—Following, for City Council: 17 garages on two sites at Muirhead Avenue/West Derby Road and Ferguson Road—Marshall Bros. (Builders), Ltd., 3 Salop Street, Liverpool, 4, £4,701; 18 garages as part of project for construction of two multi-storey blocks of flats at Bewley Drive, Kirkby—Unit Construction Co., Ltd., Speke Boulevard, Liverpool, 24, £2,314 (recommended, subject to Ministry approval).

Cleaning and painting of part of the interior of Everton branch library—W. H. Snow, Ltd., 59 Belmont Road, Liverpool, 6, £627; construction of an extension to corridor which is being constructed to serve greenhouses at Greenhill Nursery—R. Halliday and Co., Ltd., Middleton, Manchester, £589; renewal of roof and general repairs to the Colonnade at Allerton Tower estate—Fleet Decorators (Liverpool), Ltd., 23E Almonds Grove, Liverpool, 12, £1,082; internal painting of palm house at Stanley Park—Messrs. Ismay's 81 Boaler Street, Liverpool, 6, £423; internal painting and decoration of Beechley Aged Persons' Hostel—William Moss and Sons, Ltd., Roscoe Street, Liverpool, £854 (all recommended).

Alterations at Westminster House—G. H. Smith (Liverpool), Ltd., Finvoy Road, Liverpool, 13, £8,100; erection of health centre and 11 maisonnettes at Mill Street—R. J. Barton and Sons, Ltd., Altcar Road,

Formby, £94,286 (recommended, subject to Ministry approval).

Manchester.—Following works, for City Council: Replacement of defective steelwork in the basement of the Harpurhey Baths—Spooner and Seth, Ltd., 274 Deansgate, Manchester, 3; alterations and additions to housecraft room at Philips Park Secondary School—Direct Labour; scullery and dining room at Every Street School—J. W. Trafford, Ltd., Stelling Street, Manchester, 18; alterations and extensions at Buglawton Hall Special School—Gorton and Wilson, Elizabeth Street, Macclesfield; metal windows and curtain walling at Yew Tree Secondary School—George Wragge, Ltd., Oldfield Road, Salford; extension to eight-form entry at Plant Hill Secondary School; joinery work—Manchester Joinery Co., Ltd., 135 Cheetham Hill Road, Manchester, 8, painting—H. S. Hollinshead, Ltd., 30 Grimshaw Lane, Manchester, 10.

Sanitary improvements, Burnage Junior and Infants' School—Normanton Jones and Co., Ltd., 167 Plymouth Grove, Manchester, 13. Sub-contractors: asphalt—R. H. Lord and Son (Asphalts), Ltd., Pendleton; paving—Marley Tile Co. Ltd., Delamere, Ches.; plastering—A. Jeffreys (Dukinfield), Ltd., Dukinfield; plumbing and glazing—J. Jaffrey and Co., Ltd., Manchester; painting—Kilbourns, Ltd., Manchester; wall tiling—C. W. Williams and Co., Ltd., Pendleton.

Reconstruction of scullery and cloakroom alterations at Didsbury C. of E. School—Tomkin and Ryder, Ltd., Manchester.

Alterations and improvements to mess-room and tool store at Broadhurst Park, Moston—Henry Green and Son (Builders), Ltd., Cheetham Hill Road, Manchester, 8. Sub-contractors: carpentry and joinery—Stanley Porter, Ltd., Bolton; plastering—S. P. Walsh, Bolton; plumbing and glazing—John Turton and Sons, Ltd., Manchester; painting—H. S. Hollinshead, Manchester. All recommended.

Middlesbrough, Yorks.—Erection of new store in Newport Road, for Hardy and Co., Clayton Street, Newcastle upon Tyne. Clyde Young and Bernard Edge, architects, 8 New Square, Lincoln's Inn, London, W.C.2; Cussins (Contractors), Ltd., The Drive, Gosforth, Newcastle upon Tyne.

Newcastle upon Tyne.—Adaptations to Clifton Mount, for City Council: J. W. and E. Charlton, West Burn, Crawcrook, Ryton-on-Tyne, £4,711 (recommended).

Norfolk.—Construction of a swimming pool at the North Walsham Secondary Modern School, for C.C. A. W. Oak, education architect: W. Mace and Bros., Cromer Road, North Walsham, £1,769. Work commencing in spring.

Northumberland.—Additions to Throckley ambulance depot, for C.C.: Graham and Son, Ltd., Westcroft Road, Newcastle upon Tyne, £3,000.

Oxford.—Following works, for City Council: Stage I of new building at Hinksey Bathing Place, incorporating changing and toilet accommodation and a restaurant—T. H. Kinglerlee and Sons, Ltd., Lamarsh Road, Botley, Oxford, £5,703; alterations at the central library, reference library and reading room—Symm and Co., Ltd., 43 Little Clarendon Street, Oxford, £4,960; extensions at Church Cowley Primary School—T. H. Kinglerlee and Sons, Ltd., £8,395 (recommended).

Portsmouth.—Following works for the Roads, Works and Drainage Committee: Extension to the public convenience at Burgoyne Road, Southsea—Direct Labour, £1,107.

Construction of a public convenience at Castle Field, Southsea—Direct Labour. Estimated cost £4,000.

Reading, Berks.—Installation of a mezzanine floor and staircase at the Central Library, for B.C.: Bosley and Seward, Caversham, Reading, £2,894 (recommended, subject to Ministry approval).

Rochdale, Lancs.—Reconstruction of the Dog and Partridge public-house at Bury Road, Bamford, for Crown Brewing Co., Ltd. A. Brockenhurst and Co., architects, Derby Chambers, 6 The Rock, Bury, Lancs. Caton and Duckworth, Ltd., Rosehill Works, Higher Audley Street, Blackburn.

Salford, Lancs.—Following, for City Council: Provision of pre-cleansing and toilet accommodation at Seedley Public Baths—G. and J. Seddon, Ltd., Walkden, £3,079; erection of a new corridor and cloakroom improvements to ballroom and cafe at Buile Hill Park: Direct Labour, £1,858 (both recommended).

Sheffield.—Following works, for City Council: Repair, etc., at 4-8 Talbot Road and 51-59 Stafford Street—W. Hamilton and Son, 89 Stanforth Road, Sheffield, 9, £1,405; erection of a shelter at Nottingham Cliffe Recreation Ground, staff conveniences at

Graves Park nurseries, adaptation of Ash House for use as a home for old persons, phase I of scheme of adaptation of Blackbrook Mount for use as an approved school—Direct Labour, estimated cost £800, £800, £5,800 and £3,800, respectively; provision of extensions to kitchen/dining-room at Wybourn Secondary School—Spooner (Hull), Ltd., Glebe Road, Stoneferry, Hull, £1,396; interior painting work at Carter Knowle Road County School—H. W. Clack and Partner, 688 Chesterfield Road, Sheffield, 8, £1,050; repairs and adaptations to accommodation at Sheaf Island Works, Pond Hill—Direct Labour, estimated cost £2,615 (all recommended).

Smethwick, Staffs.—Improvements to the sanitary accommodation at Devonshire Road Schools, for B.C.: William Cooper and Son (Builders), Ltd., West Street, Blackheath, Birmingham, £15,389 (recommended).

South Shields, Dur.—Erection of waiting rooms, etc., at Cleadon Park Open-Air School, for E.C.: D. Glen, Ltd., 84 Albert Road, Jarrow, £1,185.

Staffordshire.—Erection of a library (stage 1), for University College of North Staffordshire, Keele Park, Newcastle-under-Lyme. Easton and Robertson, architects, 53 Bedford Square, London, W.C.1; Cooper Bros. and John Clayton, Ltd., Catherine Street, Macclesfield, Ches.

Stockport, Ches.—Provision of sanitary accommodation at Belmont Secondary School, for B.C.: C. Potterton and Son, Church Road, Cheadle Hulme, Stockport, £6,973 (recommended).

Sunderland, Dur.—Erection of bakery at Nile Street, for Ibbotson (Sunderland), Ltd., South Street. Newrick and Blackbell, architects, 58 John Street: R. Matthews and Co., 47 Nile Street, Sunderland.

Extensions and improvements to kitchen and dining rooms at Bede Grammar School, for E.C.: H. C. Bishop, borough architect: Direct Labour, £24,100.

Swansea.—Erection of a new science block comprising two linked units varying from two storeys to three storeys and basement, at the technical college, Mount Pleasant, for B.C. The buildings will be of in-situ concrete frame construction with pre-stressed concrete plank and pot floors and roof, with curtain walling and cavity brickwork for external cladding, including normal external works and services. H. T. Wykes, borough architect: John Laing and Son, Ltd., Mill Hill, London, N.W.7. Estimated cost £132,240. Work about to commence.

Swindon, Wilts.—Erection of additional refuse stores at the rear of the shops at Braydon Court, Penhill, for B.C.: K. J. Leon, 578 Cricklade Road, Penhill, Swindon, £648 (recommended).

West Hartlepool, Dur.—Subtrades let by the B.C. for aged persons' hostel on the Owton Manor estate: General contractors—G. M. Pearson and Son, Front Street, Hetton; heating installation—Heslop and Hall, Ltd., Andrew Street. West Hartlepool: electrical installation—Edgar Phillips, Ltd., Church Street, West Hartlepool; metal windows—Middlesbrough Casements, Ltd., Middlesbrough; steelwork—Dorman Long, Ltd., Middlesbrough; hardware—Lockerbie and Wilkinson, Ltd., Tipton; and passenger lift—Bell's Ironworks, Bradford.

Weymouth, Dorset.—Reconstruction of the Toll House block incorporating new transformer station, storage accommodation, pier office and pay-box, turnstiles and gates and ladies' and gents' public conveniences, for B.C.: Wm. Cowlin and Sons, Ltd., Stratton Street, Bristol, 2. Estimated cost £8,500 (recommended).

Willesden, Middx.—Conversion of rear stalls to form a ballroom at the Gaumont State Cinema, Kilburn High Road, for the Rank Organisation, Ltd., 11 Belgrave Road, London, S.W.1: A. W. Gibbons and Son, 1 Oswin Grove, Wyken, Coventry. Work to commence Jan. 18.

Wolverhampton, Staffs.—Supply and erection of the changing room and showers at the Graiseley Secondary School, for B.C.: Spooners (Hull), Ltd., Hull, £2,500 (recommended).

Woolwich.—Following, for B.C.: Erection of a messroom at the Parks Sub-depot, Shrewsbury Lane, Plumstead—Direct Labour (estimated cost £1,150); supplying and fixing three-layer bituminous felt roofing—Permanite, Ltd., 455 Old Ford Road, London, E.3, £968 (both recommended).

DEMOLITION

Camberwell.—Demolition and clearance of part of housing site 134 at Ethnard Road, for B.C.: John Harris (Bermondsey), Ltd., 9 Trantons Road, London, S.E.16, £465 (recommended).

Faversham, Kent.—Demolition of 41 dwellings, being 1-6 (inclusive) and 8-42 (in-

clusive) at Upper Brent, for B.C.: A. C. E. Richardson, borough engineer and surveyor: Daynes Transport, 2 Howt Green Cotts, Bobbing, Sittingbourne, £265 (offer accepted). Other offers received: R. A. Beck, Ltd., £212; K. Barratt, £80; Dover Demolition and Erection Co., Ltd., £104. Other tenders received include: H. Older, Ltd., £326; W. Walters (Chatham), Ltd., £180; Southwood and Squibb, £360; Wadhurst Demolitions, £157; Joseph Ashton, £174; D. and T. Transport Co., £169; J. Ashton (London), £620; G. and D. Spencer Demolition Contractors, £140; Peak Bros., £525; G. A. Meade and Co., £320.

Grantham, Lincs.—Demolition of 3-6 Hinstock Terrace, for B.C.: R. J. Bavier and Son, £60 (recommended).

Hartlepool, Dur.—Demolition of the light-house battery, which includes a six-storey reinforced concrete command post, reinforced concrete gun emplacement, etc., for B.C.: J. Wilkin, borough engineer: Alan Blair, 28 Southend Avenue, Darlington, £2,887.

Hendon, Middx.—Demolition of part of Hendon Brewery, for B.C.: Charles Griffiths, Ltd., Ripple Road, Barking, London, E., £372 (recommended).

Oxford.—Demolition of the following, for City Council: 38-45 New Street, St. Ebbe's, 30-33 Paradise Square, St. Ebbe's, 24-26 St. Clement's and 3-12 Magdalen Prospect—E. H. Barney and Son, 27 Sidney Street, Oxford, £1,095; 1-8 St. Ebbe's Street—G. R. Nixey, Ltd., Station Road, Wheatley, Oxford, £1,475 (recommended).

Rowley Regis, Staffs.—Demolition of properties included in the Dudley Road-Rowley clearance area No. 3, for B.C.: D. Hughes, 29 Orchard Close, Dudley Wood, £40 (recommended).

Sheffield.—Demolition of following properties, for City Council: Park Hill open space area, stages II and III—S. Williams, £610 and £195, respectively; 38-40 Bernard Street and 151 Attercliffe Road and Woodside Lane redevelopment area, stage G—Sheffield and Rotherham Dismantling Co., £120 and £595, respectively; partial demolition of Burton's war-damaged building in the High Street and Market Place—J. Childs, £975 (all recommended).

Swindon, Wilts.—Demolition of the following premises, for B.C.: 1 to 4 Cambria Houses and 19 and 20 Morley Street—Cook Bros., Chippenham, £160; 14 to 18 Cromwell Street, and store at rear of 14—F. R. Gould, Highworth, £120 (recommended).

Worthing, Sussex.—Demolition of the hut used as the central domestic subjects centre at High Street, for B.C.: R. C. King, Thesiger Close, Worthing, £156 (recommended).

Wortley, Yorks.—Demolition of properties and site works, Town End Road and Stocks Hill, Ecclesfield: High Street, Ecclesfield: Wheel Lane, Grenoside, for R.D.C.: R. Bailey, 68 Windmill Avenue, Wombwell, £310.

ELECTRICAL

Brierley Hill, Staffs.—Installation of electrical services to public baths, Cottage Street, for U.D.C. John R. Moore, architect and housing director: Williams Bros., Ltd., 32a Temple Street, Wolverhampton, £4,816.

Bromley, Kent.—Renewing the electrical wiring installation at Parish C.E. Primary School, for B.C.: Reid and Barrow, Ltd., 139 Masons Hill, Bromley, £712 (recommended).

Chester-le-Street, Dur.—Electrical work at Pelton County and Modern School, for C.C.: Robson and Coleman, Ltd., Newcastle upon Tyne, £966.

Consett, Dur.—Electrical work at Technical College, for C.C.: William Bros. (Electrical), Ltd., Wolverhampton, £19,728.

Cork, Eire.—Electrical installation to 78 houses at Knockfree housing scheme section four, for B.C. Eamonn O'Byrne, city architect: Sean Dobbyn, Bishopstown, Cork, £1,081.

Doncaster, Yorks.—Installation of two lifts at part III accommodation at Western Hospital, for B.C.: Direct Labour (recommended). Estimated cost £10,500.

Framwellgate Moor, Dur.—Electrical work at County Infant School, for C.C.: F. E. White, West Cornforth, £1,571.

Liverpool.—Following, for City Council: Provision and installation of traffic-actuated light signals in West Derby Road at Sheil Road—Automatic Telephone and Electric Co., Ltd., 8 Arundel Street, London, W.C.2, £1,608 (recommended, subject to M.T. approval).

Supply and installation of an electrically operated passenger lift in the William Brown Library—Express Lift Co., Ltd., 9

- Greycoat Street, Westminster, London, S.W.1, £4,506 (recommended).
- Manchester.**—Following works, for City Council: Electrical installation in the following dwellings: two at Langley, 11 at Arlington Street, Crumpsall, and 14 at Barcroft Road, Burnage—G. W. Henry, Ltd., Brighouse; electrical installation at Clough Top Secondary School—F. L. Bampton, Ltd., Manchester (recommended).
- Reading, Berks.**—Servicing and maintenance of lifts at the multi-storey blocks of flats, Bath Road, for B.C.: Direct Labour (recommended).
- Salford, Lancs.**—Installation of traffic signals at junction of Chapel Street and Irwell Street, for City Council: Automatic Telephone and Electric Co., Ltd., Strowger House, 8 Arundel Street, London, W.C.2, £2,372 (recommended, subject to M.T. approval).
- Stockport, Ches.**—Electrical installation in 51 dwellings, contract 47, for B.C.: Simmons Electrical Contracting Co., Ltd., 479 Middleton Road, Chadderton, Oldham, £1,091 (recommended).
- Swindon, Wilts.**—Electrical work at the slaughterhouse, Marlborough Lane, for B.C.: Ferris Bros., 134 Victoria Street, Swindon, £685 (recommended).
- Wolverhampton, Staffs.**—Installation of passenger lifts, Vauxhalls redevelopment, for B.C.: Express Lift Co., Ltd., 65 Barwick street, Birmingham, 3, £12,294 (recommended).
- Wycombe, Bucks.**—Electric lighting and heating installation at 8-9 Easton Street, for R.D.C.: Electric Installations, Ltd., Desborough Road, High Wycombe, £662 (accepted); Southern Electricity Board, £672; Mead and Jeffery, Ltd., £1,033.

FENCING

- Blackburn, Lancs.**—Chain link fencing at Whitebirk Tip, for B.C.: Darlington Fencing Co., Ltd., Balby, Doncaster (recommended).
- Cheshunt, Herts.**—Supply and erection of approximately 570yd. of concrete fencing on three separate sites, contract 366, for U.D.C. A. A. Hamilton, engineer: Bell and Webster (Contractors), Ltd., Essex Road, Hoddesdon, Herts., £1,552 (accepted); R. W. Ricketts (Fencing), Ltd., £1,658; Metropolitan Concrete Works, Ltd., £1,694; Boulton and Paul, Ltd., £1,713; Concrete Utilities, Ltd., £2,156. Work about to commence.
- Leyton, Essex.**—Renewal of railings at Bromley Road frontage (part), for B.C.: Bayliss, Jones and Bayliss, Ltd., 139 Cannon Street, London, E.C.4 (recommended).

GAS AND WATER SUPPLY

- Amphill, Beds.**—Laying of approximately 550yd. of 3in. diameter asbestos-cement pipes at Pulloxhill, for R.D.C. C. A. Lewis, engineer and surveyor: Biggs Wall and Co. (Hitchin), Ltd., 130 Stevenage Road, Hitchin, Herts., £1,119.
- Barrow-on-Humber, Lincs.**—Extensions to the existing Bobby automatic base-exchange water-softening plant for the pumping station at Barrow-on-Humber, for the North Lindsey Water Board. The extension will bring the plant's capacity up to 150,000 gallons per hour—W. Bobby and Co., Ltd., Rickmansworth, Herts. Estimated cost £18,500.
- Bath, Som.**—Water supply scheme for Upper Swainswick, for City Council: Cradmin Co., Ltd., Bath, £7,090.
- Cheltenham, Glos.**—Following works, for B.C.: Supply of (a) sluice valves and (b) air and pressure reducing valves for 21in. and 18in. diameter water mains—(a) Guest and Chrimes, Ltd., Rotherham, Yorks., £991, and (b) Glenfield and Kennedy, Ltd., 105 Park Street, London, W.1, £385 (recommended). Supply of 12in. steel pipe for laying across the railway bridge at Tewkesbury Road—Bristol Piping Co., Ltd., 75 King Street, Bedminster, Bristol, 3, £743 (recommended).
- Chippenham, Wilts.**—Installation of a new borehole pump, alterations to two existing borehole pumps and the provision of new booster pumping plant at the waterworks, for B.C.: Harland Engineering Co., Ltd., Alloa, Scotland, £17,676 (recommended, subject to Ministry approval).
- Forehoe and Henstead, Norfolk.**—Provision and laying of about 9,000yd. of 4in. and 3in. diameter spun-iron pipe water mains at Bracon Ash, etc., for R.D.C. Elliott and Brown, consulting engineers, Stanley House, Pelham Road, Nottingham: A. R. King, Kingscroft, Kabin Road, Costessey, Norwich, £16,175 (accepted); E. Thompson, Ltd., £16,319; A. R. Cleghorn and Co., Ltd., £17,184; E. J. Edwards (Norwich), Ltd., £17,584; Harry Pointer (Norwich), Ltd., £18,866; F. W. Shanks, Ltd., £22,588; J. Nunn and Sons, £22,380. Work commencing March.
- Sheffield.**—Supply of two sets of pumping plant and ancillary equipment for Oaks water tower, for City Council: Worthington-Simpson, Ltd., 131 Tom Lane, Sheffield, 10, £998 (recommended).
- Warkworth, Northumb.**—Construction of the intake works on the River Coquet near Warkworth, for Coquet Water Board. Sir William Halcrow and Partners, engineers, 47 Park Lane, London, W.1; Sir Robert McAlpine (North Eastern), Ltd., 81 Jesmond Road, Newcastle upon Tyne, 2, £128,246. Work commencing Feb. 1.

HARBOURS, PIERS AND SEA DEFENCE WORKS

- Newcastle upon Tyne.**—Construction of a deep water quay extension, for City Council: Sir Robert McAlpine and Sons (North Eastern), Ltd., 81 Jesmond Road, Newcastle upon Tyne, 2, £320,743 (recommended).
- Portrush, Antrim.**—Construction of sea defence works at West Bay, for U.D.C. Sir William Halcrow and Partners, consulting engineers, 10 Malone Road, Belfast: W. M. Bolton and Sons, Ltd., Kilrea, Co. Derry, £105,199 (accepted); Concrete Piling, Ltd., £115,108; Stewart and Partners, Ltd., £109,576; R. J. Patterson Nutt and Sons, £124,703; J. Rainey (Construction), Ltd., £127,829; Messrs. Norden, £135,976; Farrans, Ltd., £136,650; R. J. Campbell (Belfast), Ltd., £137,900; McLaughlin and Harvey, Ltd., £138,373; Charles Brand and Son, Ltd., £139,868.

HEATING AND VENTILATING

- Liverpool.**—Supply and installation of boiler plant at Westminster Road Baths, for City Council: Ruston and Hornsby, Ltd., Lincoln, £5,989 (recommended).
- Manchester.**—Following works, for City Council: Central heating and boiler plant installation at Yew Tree Secondary School and Clough Top Secondary School—A. Fishwick and Sons, Ltd., 575 Ashton Old Road, Manchester, 11, and Batley's (Builders), Ltd., Mossley, respectively.
- Additional work for air conditioning and high velocity ventilation installation in the control tower and domestic flights wing of new terminal building at Manchester Airport—Andrew Air Conditioning, Ltd., Stockport (all recommended).
- Newcastle upon Tyne.**—Mechanical engineering services at various hospitals, for Newcastle upon Tyne Regional Hospital Board: Stockton and Thornaby Hospital—G. S. Akinhead and Co., Ltd., Maiden Street, Newcastle upon Tyne, £3,437; Winterton Hospital (sanitary annexe)—Rowells, Ltd., Byron Street, Newcastle upon Tyne, £2,059; Newcastle General Hospital (child psychiatric unit)—J. T. Leake and Co., Ltd., Back Hanover Square, Newcastle upon Tyne, £1,877; Dovenby Hall Hospital (new kitchen)—G. S. Akinhead and Co., Ltd., Maiden Street, Newcastle upon Tyne.
- Wallasey, Ches.**—Heating installation at Corsedale School, for B.C.: Engineering Services Installation, Ltd., St. Marys Road, Liverpool, 19.

HOUSING SCHEMES

- Adwick-le-Street, Yorks.**—Eight houses at Old Skellow, for U.D.C.: Robert Dunkerley and Sons, Ltd., 9 Highfield Road, Doncaster, £13,793.
- Alford, Lincs.**—Erection of six houses, for U.D.C.: Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex.
- Ammanford, Carm.**—Three blocks of semi-detached and two blocks of detached traditional type bungalow units, on four sites, for U.D.C. W. T. H. Lock Smith, engineer and surveyor: Western Plasterers, Ltd., Snowdrop Lane, Haverfordwest, £12,885 (accepted); T. E. Edwards, £13,200; Amman Contracts, £13,924; R. Evans, £14,896. Work has commenced.
- Andover, Hants.**—Six houses at Fyfield and six houses and sewage disposal plant at Grateley, for R.D.C.: Eades Bros., Ltd., Charlton, Andover, £10,440 and £11,617, respectively.
- Ballycastle, Antrim.**—Four pairs semi-detached double-storey dwelling houses at Mosside, for R.D.C. O. N. Wheeler, architect and engineer: Wm. Smyth and Son, Castle Street, Ballycastle, £14,100 (accepted); A. Cusick, £14,241; T. Taggart and Sons, Ltd., £14,787. Work to commence in Feb.
- Barrow-in-Furness, Lancs.**—Thirty-one dwellings on the Tummerhill housing estate, for B.C.: Direct Labour, £52,275.
- Bedale, Yorks.**—Seventeen bungalows at Plews Yard site, Aiskew, for R.D.C. Kenneth V. Shaw, architect, Oak House, Market Place, Bedale: R. B. A. Moody Bros. (Contractors), Ltd., 18 East Road, Northallerton, Yorks., £21,069. Work to commence at once.
- Belfast.**—Erection of 56 flats and 63 houses at West Circular Road, for City Council: Waddell and Roberts, Ltd., 79 Ladas Drive Belfast, £166,938.
- Belfast.**—Three hundred and sixty-nine dwellings at Turf Lodge 2 estate, for City Council: P. J. Walls and Bros., Ltd., Saintfield Road, Belfast, £516,056.
- Birmingham.**—Twenty-three dwellings and six shops at Lyndhurst estate, contract 678, for City Council. A. G. Sheppard Fidler, city architect: Direct Labour, £67,985.
- Bodmin, Corn.**—Eight bungalows at Trelawney Road, for B.C.: Messrs. Standons, Ltd., £10,716 (recommended).
- Brechin, Angus.**—Various works for 44 houses in Bridge Street, for B.C.: Excavator concrete and brickwork—C. and D. Laird, Forfar, £25,710; carpenter and joiner—Wm. Black, Brechin, £15,201; glazier—J. Thow, Dundee, £1,692; roughcast—Baxter Bros., Montrose, £804; plumber—Pelling and Cronshaw, Arbroath, £3,916; plaster—Laird Bros., Forfar, £6,112; painter—Jas. Nicoll, Montrose, £1,962; electrical—Jas. Scott, Perth, £9,183; smith work—Parker-Rodgers, Carnoustie, £1,032.
- Bristol.**—Conversion of 261 St. Johns Lane, Bedminster, for City Council: Direct Labour (recommended). Estimated cost £825.
- Camberwell.**—Six one-bedroom flats at Dylways site, for B.C.: Direct Labour, £13,614 (recommended, subject to Ministry approval).
- Chichester, Sussex.**—Twenty-nine bungalows, 16 flats, four houses and two garages at North West Section, Parklands, and one cottage at Funtington, for City Council: Drury Construction (Southern), Ltd., 4 Farncombe Road, Worthing, £71,759 (recommended, subject to Ministry approval).
- Chislehurst and Sidcup, Kent.**—Following works, for R.D.C.: Four type B.6 bungalows and four type R houses, together with site drainage works at Paper Mill Lane, Stoke Hammond—Gillham and Horsman, Ltd., Bletchley, Bucks., £12,744 (accepted); G. Alcock and Son, £12,845; W. G. Willis and Sons, £13,213. Work about to commence.
- Chorley, Lancs.**—Eighteen aged persons' bungalows at Whittle-le-Woods, for R.D.C.: J. W. Lee, Ltd., Yarrow Road, Chorley, Lancs.
- Crook, Dur.**—Fifty houses on the Watergate estate, for U.D.C. Page, Son and Hill, architects, 75 King Street, South Shields: John Twine, Ltd., Allerdale House, Brigham, Cumberland (subject to Ministry approval).
- Doncaster, Yorks.**—Three staff houses at Rossington Hall E.S.N. School, for B.C.: Whittington (Builders), Ltd., £4,315 (recommended).
- Durham.**—Erection of a three-storey block of three flats in Claypath, for City Council: Henry F. Mole and Co., Ltd., The Vineries, Chester-le-Street, Co. Durham, £5,245 (accepted); Bell and Ridley, Ltd., £6,069; R. E. Coleman, Ltd., £6,600; F. W. Goodyear and Son, £5,538; Isaac Berriman, Ltd., £6,118.
- Ealing, Middx.**—Twelve flats at the junction of Windmill Road and Darwin Road, for B.C.: Circle Construction Co., Ltd., 65 Wembley Hill Road, Wembley, £16,189.
- Eston, Yorks.**—Fifty-six flats and maisonnettes on the southern section of the Grangetown estate, and 32 flats and maisonnettes on the Teesville East estate, for U.D.C. N. C. Harrison, surveyor: J. H. Fawcett, South Park View, Normanby, Middlesbrough.
- Folkestone, Kent.**—Following works, for B.C.: Block of eight maisonnettes at Sandgate High Street—Stretton Bros., Ltd., 27 Bouverie Square, Folkestone, £13,606; two blocks of two-bedroom flats at Tennyson Place—W. Dunk, Ltd., 47 Tontine Street, Folkestone, £7,059 (recommended, subject to Ministry approval).
- Harrogate, Yorks.**—Block of luxury flats in York Place: C. E. Cowen (Builders), Ltd., Harrogate.
- Havant and Waterloo, Hants.**—Seventy-eight dwellings, comprising 36 houses, three blocks of eight flats and 18 bungalows at Cunnigham Road, Cowan Road, Hamble Lane and Vian Road, Waterlooville, for U.D.C.: Faulkners, Ltd., 113a London Road, Waterlooville.
- Heywood, Lancs.**—Two hundred and six dwellings and 36 garages, Angel Meadow site, for B.C.: George Wimpey and Co., Ltd., 26 Hammersmith Grove, London, W.6, £331,814 (recommended, subject to Ministry approval).
- Kidderminster, Worcs.**—Twenty-one dwellings at Fairfield estate, Wolverley, for R.D.C.: P. Kite and Son, Ltd., Festival Works, Coombes Road, Halesowen, £31,385.
- Leicester.**—Two hundred and ninety-eight Easiford dwellings on the county portion

of the Eyres Monsell estate, for City Council: J. Laing and Son, Ltd., Mill Hill, London, N.W.7, £378,874 (recommended).

Leyton, Essex.—Following works, for B.C.: Repairs to properties in the borough, contracts 12, 13 and 14: Contract 12—H. Bent, Ltd., 139 Forest Road, London, E.11, £4,211; contract 13—E. Lofts and Son, 9 Russell Road, London, E.10, £3,064; contract 14—S. C. Glover, Ltd., £4,382; erection of six flats, 24 maisonnettes and 10 garages at Vicarage Road—J. and R. Roof, Ltd., 63 Boundary Road, London, E.6, £72,888 (recommended, subject to Ministry approval).

Liverpool.—Following, for City Council: Conversion of 168 Chatham Street, into three self-contained flats, including sundry repairs and decorations—W. Edge, 56 New Road, Eccleston Lane Ends, Prescot, £1,061 (recommended).

One hundred and forty-seven flats and 36 garages at Grant Road—Direct Labour, estimated cost £222,421; 15 flats at Warwick Street and 30 dwellings at Stanhope Street—R. J. Barton and Sons, Ltd., Altcar Road, Formby, £22,514 and £51,381, respectively (recommended, subject to Ministry approval).

Manchester.—Following works, for City Council: 16 dwellings and preparation of a site for 17 garages at Leach Street, Gorton—P. Bracegirdle, Ltd., Tramway Road, Irlam (subject to Ministry approval). Thermoplastic floor tiling work in the following dwellings: 124 at St. George's, one at Langley, one at Cardinal Street, Cheetham, and one at Cardinal Street, Crumpsall—British Mouldex, Ltd., Wellesborough, Northants.

Asphalt flooring work in following dwellings: four at Cardinal Street, Cheetham, and four at Arlington Street, Crumpsall—R. H. Lord (Asphalters), Ltd., Salford.

Asphalt work to roofs and balconies of 124 maisonnettes at St. George's (contract 260A)—Davies Bros. (Asphalters), Ltd., Manchester.

Provision and erection of balcony and staircase balustrading at 22 maisonnettes at Thornton Street, Collyhurst—George Wragge, Ltd., Salford (all recommended).

Moir, Down.—Erection of the following, for R.D.C.: 66 houses at Risk—James McMullan and Co., Ltd., Knockmore, Lisburn, £96,766; 10 houses at Corcreeny, Lurgan—Calvert Bros., Ltd., Bletary, Lurgan, £15,520.

Morley, Yorks.—Seventy-two three-storey, two bedroom flats for city redevelopment, for B.C.: Homeville Co., Ltd., 12 Crauford Rise, Maidenhead, Berks., £103,490 (recommended, subject to Ministry approval).

Oakengates, Salop.—Erection of 70 houses, for U.D.C.: Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex.

Oxford.—Following works, for City Council: Sixty maisonnettes at the former gas board site in St. Ebbe's and 85 houses and 18 garages on section 3b at Blackbird Leys estate—John Laing and Son, Ltd., Mill Hill, London, N.W.7, £176,462 and £139,751, respectively; 12 houses at Green Road—R. C. Munt (Builders), Ltd., Quarry Road, Headington, Oxford, £20,393; 16 maisonnettes at Green Road and 22 at Horspath Road—A. C. Carter (Oxford), Ltd., Green Road, Headington, Oxford, £30,911 and £44,131, respectively (recommended).

Prudhoe, Northumb.—Fifty-two houses at West Wylam, for U.D.C. W. C. Ireland, surveyor: G. Wimpey and Co., Ltd., Orchard House, Fenwick Terrace, Newcastle upon Tyne (provisionally).

Reading, Berks.—One block of 15-storey flats and 132 garages at Coley Park estate, for B.C.: G. Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, £219,977.

Rochester, Kent.—One hundred houses and 60 garages, added area stage I (part B), for City Council: Peak Construction (Liverpool), Ltd., Knight Road, Strood, Rochester.

Rowley Regis, Staffs.—Supply and laying of floor tiling in 46 houses under construction at California Road/Pine Road, Tidvale Hall estate, for B.C.: Marley Tile Co., Ltd., Sevenoaks, Kent, 7s. 11d. per yd. (recommended).

Salford, Lancs.—Fifty-six maisonnettes on the Regent Road housing site, for City Council: Direct Labour, £111,020 (recommended, subject to Ministry approval).

Sedgley, Staffs.—Sixteen flats and 50 houses, for U.D.C.: Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex.

Shepshed, Leics.—Erection of 22 houses, for U.D.C.: Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex.

Smethwick.—Glazing work for 15 maisonnettes and one flat at Wellington Road, for B.C.: Aygee, Ltd., 848 Tyburn Road, Erdington, Birmingham, 24.

Swindon, Wilts.—Following works, for B.C.: 101 traditional dwellings and 56 garages on site F in the Park North neighbourhood—John Laing and Son, Ltd., Mill Hill, London, N.W.7, £181,626; 96 traditional dwellings and 20 garages in the Park South neighbourhood—Building and Public Works Construction Co., Ltd., Headlands Grove, Swindon, £163,660 (recommended).

Teignmouth, Devon.—Forty-two flats at Fourth Avenue and Fraser Drive, for U.D.C.: Staverton Contractors, Ltd., Staverton

Bridge Mills, Totnes. Estimated cost £74,824.

Thorne, Yorks.—Sixty-six houses at South Common, for R.D.C.: Robert Dunkerley and Sons, Ltd., 9 Highfield Road, Doncaster, £88,745.

Uppingham, Rutland.—Erection of three bungalows, for R.D.C.: Gregory Housing, Ltd., 21 Farncombe Road, Worthing, Sussex.

Wallasey, Ches.—Seventeen houses and six two-storey flats at Rankin Street, for B.C., together with paths, drains and ancillary works. W. P. Clayton, borough architect: Direct Labour.

Wolverhampton, Staffs.—Following works, for B.C.: 10 houses and 24 flats at Thornton Road—Bishop, Burns and Co., 21 Tetterhall Road, Wolverhampton, £38,893; construction of the reinforced concrete frames for the three 11-storey blocks of flats in the Vauxhalls redevelopment area—Truscon, Ltd., George House, George Road, Edgbaston, Birmingham, 15, £76,219 (recommended, subject to Ministry approval).

Woolwich.—Eighteen dwellings on Rectory Place site, for B.C.: Direct Labour, £46,403 (recommended).

York.—Twenty self-contained flats for the Joseph Rowntree Memorial Trust: F. Shepherd and Son, Blue Bridge Lane, York.

MATERIALS AND SUPPLIES

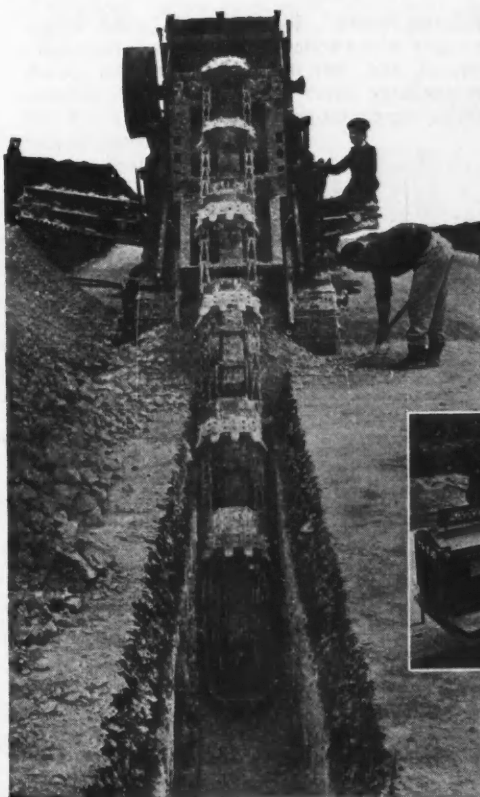
Barrow-in-Furness, Lancs.—Supply of 1,000 dustbins, for B.C.: Railway and General Stores Contractors, Ltd., 675 Salisbury House, London, E.C.2, £1 10s. 5d. each net, including purchase tax (recommended).

Folkestone, Kent.—Provision of a steel extension to the stage at Lees Cliff Hall, for B.C.: R.M.R. Engineering, Ltd., Folkestone, £655 (recommended, subject to Ministry approval).

Salford, Lancs.—Supply of 3,000 galvanised dustbins and covers (1,500 each), for City Council: S. Sims and Sons, Ltd., New Whittington, Chesterfield, Derbyshire, £2,396; and Brettell and Shaw, Ltd., Brierley Hill, Staffs., £2,390 (recommended).

Smethwick, Staffs.—Supply of bin stillages and refuse storage bins for use in the multi-storey dwellings, for B.C.: Brade-Leigh Products, Ltd., 2 Market Place, Great Bridge, Tipton, £520 (recommended).

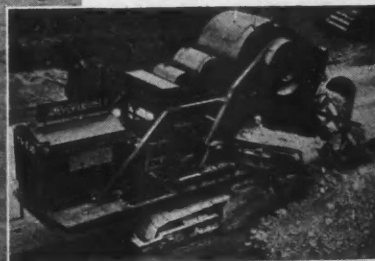
Stockport, Ches.—Supply of ironmongery for (a) Fylde Lodge High School, and (b) Stockport College of Further Education (extensions, phase I), for B.C.: (a) Lockerbie and Wilkinson, Ltd., Alexandra Works, Tipton, Staffs., £499, and (b) Laidlaw and Thomson, Ltd., 60 Cannon Street, Manchester, 4, £1,668 (recommended).



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Wolverhampton, Staffs.—Following, for B.C.: Laboratory benching for Wolverhampton Grammar School—Midland Joinery Works, Ltd., Wolverhampton, £887; granite kerb and quadrants for inner ring road, section 1—A. E. Martin and Co., Ltd., £3,641; refuse chutes and balustrading, Wright Street redevelopment—Broads Manufacturing Co., Ltd., 4 South Wharf, London, W.2, £1,258, and Russell's Forge and Engineering Co. (Gornal), Ltd., Holloway Works, Lower Gornal, Sedgely, £771, respectively (recommended).

MISCELLANEOUS

Rowley Regis, Staffs.—Supply of cremator and ancillary equipment for the crematorium, for B.C.: Dowson and Mason, Ltd., Manchester, £2,593 (recommended).

PLANT AND MECHANICAL TRANSPORT

Birmingham.—Supply of a diesel driven tractor and portable cement silo, for City Council: J. W. Glover and Sons, Ltd., 20 Lower Trinity Street, Birmingham, 9, and McCreath, Taylor and Co., Ltd., 84 Colmore Row, Birmingham, 3.

Liverpool.—Supply during financial year 1960-61 of two lightweight side-loading refuse collecting vehicles, in primer, for City Council: Thomas S. Whitney and Co., Ltd., 279-283 Scotland Road, Liverpool, 5, £1,220 (recommended).

Morley, Yorks.—Supply of a 12 cu. yd. capacity side-loading diesel refuse collection vehicle and a 7 cu. yd. capacity side-loading diesel refuse collection vehicle, for B.C.: Westgate Motors (Wakefield), Ltd., Wakefield (recommended).

Newcastle upon Tyne.—Supply of two air compressors, for City Council: Trailer-type machine—Ingersoll-Rand Co., 165 Queen Victoria Street, London, E.C.4, £1,000; tractor-type machine—J. W. and S. Dorin, Ltd., 64 Grosvenor Drive, Whitley Bay, £1,027 (recommended).

Salford, Lancs.—Supply of an air compressor, for City Council: Atlas Copco (Great Britain), Ltd., Hemel Hempstead, £568 (recommended).

Sheffield.—Supply of diesel conversion units for conversion of two steam cranes to diesel power, for City Council: Thomas Smith and

Sons (Rodley), Rodley, Leeds, £2,450 (recommended).

Stockport, Ches.—Supply of one Bedford 3-ton vehicle with removable canopy top, for B.C.: Graham Bros., Ltd., 15 Peter Street, Manchester, 2, £961 (recommended).

Tunbridge Wells, Kent.—Supply of a portable air compressor and tools, for B.C.: Lead Wool Co. (1919), Ltd., Snodland, Kent, £920 (recommended).

Wolverhampton, Staffs.—Supply of the following, for B.C.: Fordson Dexta tractor—R. Tildesley, Ltd., Willenhall, £568; one Land-Rover—C. Attwood and Son, Ltd., Wolverhampton, £611 17s. 6d. after deduction of fleet owner's discount and the value of the existing Land-Rover given in part exchange; two Morris four-ton lorries—Bradburn and Wedge, Ltd., Wolverhampton, £1,663 1s. after the deduction of the value of a Morris lorry given in part exchange (recommended).

PLAYING FIELDS, PARKS, ETC.

Dudley, Wores.—Laying out of land at junction of Burton Road and The Broadway, for B.C.: Direct Labour (recommended). Estimated cost £850.

Hertford.—Re-laying the cricket table and running track at Hartham, for B.C.: Entout-Cas, Ltd., Syston, Leicester, £792 (recommended).

Southport, Lancs.—Alterations and reconstruction of the Hillside Golf Course, for B.C.: W. Rainford, Liverpool, £39,978 (recommended).

RAILWAY ENGINEERING

British Railways.—Following contracts placed:

Southern Region:

Durnsford Road: repair shops—new heating plant, supply and installation of boilers—John Thompson (Wilson Boilers), Ltd., Glasgow, E.I.

Extension of Electrification, Paddock Wood—new control room—L. and W. Whitehead, Ltd., London, S.W.9.

Exeter Central Goods Yard—renewal and reconstruction of loading docks—Sidney Pratt (Builders), Ltd.

Southampton Central—new inquiry office—A. J. Dunning and Sons (Weyhill), Ltd., Andover, Hants.

Ashford (Kent)—modernisation of marshalling yard, new staff accommodation—L. and W. Whitehead, Ltd., London, S.W.9.

RIVER AND FLOOD PREVENTION WORKS

Leyton, Essex.—Reinstatement of Leyton Marshes, contract 20, for Lee Conservancy Catchment Board: Surface Maintenance Services, Ltd., Durham House, 124 Old Christchurch Road, Bournemouth, Hants, £26,386 (not £2,386 as stated in previous issue).

Leyton, Essex.—Repairs to the banks of Dagenham Brook, for B.C.: J. Shelbourne and Co., Ltd., Battlebridge House, Tooley Street, London, S.E.1 (recommended).

ROADS, BRIDGES AND SITE WORKS

Adwick-le-Street, Yorks.—Strengthening of bridge over the Skell Beck, for U.D.C.: Direct Labour. Work commencing in the spring.

Amphill, Beds.—Construction of following works, for R.D.C.: C. A. Lewis, engineer and surveyor: Roads (approximately 1,000 sq. yd. of tarmacadam carriageway), footways, drains and water mains at Dengarth estate, Flitwick—A. A. Briggshaw and Son, Ltd., 25a Prince's Street, Dunstable, £4,387; tarmacadam access road and ancillary works at the Rural District Council garage and stores—Caden Miller (Construction), Ltd., 101 Toddington Road, Luton, £1,373.

Belfast.—Following, for City Council: (1) Construction of roads, sewers and ancillary works at Victoria Barracks; (2) construction of roads, sewers and ancillary works at West Circular Road—(1) Stewart and Partners, Ltd., Ormeau Road, Belfast, £56,058; (2) Stewart and Partners, Ltd., Ormeau Road, Belfast, £9,288.

Birmingham.—Road and sewer works at the Firs estate, Castle Bromwich, for City Council: Road Construction (Birmingham), Ltd.

Caerphilly, Glam.—Making-up of (a) Danycoed Street, (b) Underwood Terrace (parts I and II) and (c) Rhymney Terrace, for U.D.C.: (a) J. F. Dymond, 30 High Street, Newport, Mon., £1,689, and (b) and (c)

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- J. O. Connell, Ltd., 31 Newtown-Nottage Road, Newtown, Porthcawl, £3,568 and £2,407, respectively.
- Chelmsford, Essex.**—B.C. recommended to approve scheme for the widening of Broomfield Road between Seventh Avenue and the borough boundary. Estimated cost £29,500.
- Cheltenham, Glos.**—Improvement of part of the N.E./S.W. runway at the aerodrome, for the Gloucester and Cheltenham Joint Airport Committee: Tarslag, Ltd., Wolverhampton, £3,880 (recommended).
- Chislehurst and Sidcup, Kent.**—Laying 970 lin. yd. of kerbing, 3,000 sq. yd. of flagging together with mastic asphalt channels, High Street, Sidcup, for U.D.C. W. B. Farrow, engineer and surveyor: Henry Hemmings, Ltd., 1 Brigstock Road, Thornton Heath, Surrey, £6,329. Work to commence in February.
- Doncaster, Yorks.**—Following works, for B.C.: Kerbing, channelling and flagging of footpaths, Grand Stand Road, and construction of a roundabout at junction of Carr House Road and Bawtry Road—McCann, Fleming and Moran, Ltd., 197 Handsworth Road, Sheffield, 13. Kerbing, channelling and flagging of footpaths, Ellers Road (contract 52)—North Lonsdale Tar Macadam, Ltd., Albion Works, Sheffield, 4, £6,194 (both recommended).
- Dudley, Worcs.**—Following works, for B.C.: Resurfacing of footpaths in parks and the borough cemetery—Road Surfacing Co., Ltd., 68 Hagley Road, Edgbaston, Birmingham, 16, £600; additional excavation works at rear of houses at Corbyn Road and Ashenhurst Road—Bulldozers (Kingswinford), 31 Penzer Street, Kingswinford, Brierley Hill, £1,259 (recommended).
- East Suffolk.**—Construction of a second carriageway at Copdock on the London-Edinburgh trunk road, A.12 (contract 17), for C.C. J. B. Lund, county surveyor: Harry Pointer (Norwich), Ltd., 5 Guardian Road, Norwich, £37,386. Work commencing Jan. 18.
- Godstone, Surrey.**—Construction of footways and ancillary works at Council housing estate, Chestnut Copse, Pollard Oak, Oxted, for R.D.C., comprising 1,080 sq. yd. of footway construction; 1,244 sq. yd. of carriageway surfacing: Ransom and Banks, Ltd., Dunton Green, Sevenoaks, Kent.
- Grantham, Lincs.**—(a) First phase of the advance preparation of Earlsfield estate and making-up of Earlsfield Lane, including the reconstruction of the existing canal bridge, and (b) the construction of footpaths, walls and fencing, for B.C.: (a) G. Wimpey and Co., Ltd., Nottingham, £43,146, and (b) Direct Labour, £6,723 (recommended, subject to Ministry approval).
- Gravesend, Kent.**—Renovation of paths at 163 Wrotham Road in tarmacadam, for H. E. D. Wilson: Hodsons, Ltd., 17 Wrotham Road, Gravesend.
- Hendon, Middx.**—Following, for B.C.: Resurfacing a section of Hale Lane, Edgware, resurfacing of 12 roads in the borough—Sparkes (Construction), Ltd., Spring Road, Feltham, Middx., £2,578 and £6,599, respectively (recommended).
- Hendon, Middx.**—Resurfacing of Marsh Lane, for B.C.: Sparkes (Construction), Ltd., Spring Road, Feltham, £2,219 (recommended).
- Keynsham, Som.**—Hurn Lane extension improvement, for U.D.C. Reconstruction and surfacing of approximately 1,985 sq. yd. of carriageway, 598 sq. yd. of asphalt footpaths, 305 lin. yd. of kerbing, together with 263 lin. yd. of 9in. and 12in. diameter surface water sewer, and other incidental works: John Knox (Bristol), Ltd., Winterstoke Road, Bristol, 3, £5,319.
- Kidderminster, Worcs.**—Construction of the road at rear of the Shatterford housing estate, for R.D.C.: Three Counties Construction Co., Ltd., 32 Fairview Road, Penn, Wolverhampton, £677.
- Leeds.**—Following works, for City Council: Private street works, Dunstarn Drive (part), Dunstarn Gardens and Dunstarn Lane—Hadsphalitic Construction Co., Ltd., Ibex House, Minorities, London, E.C.3., £5,437; Tinsill Grove—K. W. Mackenzie (Leeds), Ltd., £567; Wood Hill Road (part)—Jas. E. Speight, 29 Primrose Lane, Halton, Leeds, £2,662; Pinfold Court—Dalton and Higgins, Canal Wharf, Leeds, 11, £966; housing estate works, Swinnow estate area two (sites C and F)—Fallon (Civil Engineering and Plant Hire), Ltd., South Accommodation Road, Leeds, 9, £11,656 (all recommended).
- Leicester.**—Following works, for City Council: Surfacing of footways, the sealing of carriageway joints and the grassing of verges and open spaces on a further section of the county portion of the Thurnby Lodge estate—Limmer and Trinidad Lake Asphalt Co., Ltd., Trinity House, Coventry Street, Birmingham, £13,911; reconstruction of Christow Street and the completion of Ottawa Road to its junction with Upper Brunswick Street as part of the first phase of the St. Matthews redevelopment scheme—Chapman and Dowd, Ltd., 71 Nelson Street, Birmingham, 1, £12,065 (recommended).
- Lichfield, Staffs.**—Construction of the ring road and main drainage scheme leading from Burton Road to the end of Weston Road at Stychbrook, for B.C.: Ballasts, Ltd., Bentley Lane, Walsall, Staffs., £101,475.
- Manchester.**—Following works, for City Council: Road and sewer works at Hill Top estate, Blackley New Road—D.C.M. Contractors (Liverpool), Ltd., Huyton-with-Roby, Lincs. Sub-contractors Bulk excavation—Excavhaul, Ltd., Huyton-with-Roby; bituminous surfacing—Asphaltic Roadways, Ltd., Pendleton. Road and sewer works at Fairbourne Road, Levenshulme—F. Gannon and Son (Manchester), Ltd., 64 Osborne Road, Manchester, 19. Site investigation survey for multi-storey development at Glebelands Road, Baguley Hall and at Ossington Walk, Northern Moor—Truscon, Ltd., 35 Lower Marsh, London, S.E.1. Construction of new terminal apron and certain lengths of taxiway at Manchester Airport, including a static refuelling installation—Richard Costain, Ltd., 111 Westminster Bridge Road, London, S.E.1. (all recommended).
- Morecambe, Lancs.**—Resurfacing of playgrounds at the Euston Road County Secondary School, for Co. E.C.: Shepherd's (Rochdale), Ltd., 3 Summer Street, Rochdale, £2,040.
- Morley, Yorks.**—Street works, part II, of Moorhead extension, for B.C.: Leake and

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GENERAL ROADWORK

- Carney, Ltd., 11 Holmfield Lane, Wakefield (recommended, subject to Ministry approval). Estimated cost £24,430.
- Newcastle-under-Lyme, Staffs.**—Construction of roads and sewers for stage II of the New Street redevelopment, Wolstanton, for B.C.: Staffordshire Public Works Co., Ltd., Victoria Works, Campbell Road, Stoke-on-Trent, £16,403 (recommended).
- Ossett, Yorks.**—Private street works in road I at Sunnydale Park, for B.C.: Isaac Timmins, Ltd., Dalton, Huddersfield, £4,880 (recommended).
- Oxford.**—Provision of hard tennis/netball courts at Cheney Girls' School, for City Council: Maxwell M. Hart (London) Ltd., 248 Beulah Hill, London, S.E.19, £2,415 (recommended).
- Reading, Berks.**—Conversion of four grass tennis courts to hard courts at Palmer Park, for B.C.: Maxwell Hart, Ltd., 612 Reading Road, Wokingham, Berks., £1,350 (recommended).
- Redcar, Yorks.**—Road and sewers, Lakes neighbourhood unit, for B.C., comprising approximately 23,000 sq. yd. of flexible carriageway construction and 3,500 lin. yd. of sewer from 6in. to 24in. diameter, together with ancillary works. K. W. Ash, borough engineer: Tarslag, Ltd., Stockton-on-Tees, £63,285 (recommended, subject to Ministry approval).
- Rothwell, Yorks.**—Construction of roads and sewers at Holmsley Lane and Fourth Avenue-Sixth Avenue infilling sites at Rothwell Haigh, for U.D.C.: Leake and Carney, Ltd., Field Lane, Thornes, Wakefield, £8,154 (subject to Ministry approval).
- Salford, Lancs.**—Making-up and completion of Brookside Drive and Dronfield Road from Manor Road to the passage along the gable of 38 Dronfield Road, for City Council: Wilson and Wilkinson (Salford), Ltd., Transport House, The Crescent, Salford, £1,072 and £5,618, respectively (recommended).
- Scarborough, Yorks.**—Roadworks, Sea-View estate. Wilkinson, Smith and Brittlebank, architects, Martins Bank Chambers, Westborough, Scarborough: J. H. and J. C. Elliott, Ltd., 45 St. Olaves Road, Bootham, Yorks., £36,000. Work about to commence.
- Smethwick, Staffs.**—Granolithic Paving and road works at Langley Mede site, for B.C.: Prodorite, Ltd., Eagle Works, Leabrook Road, Wednesbury, and Road Surfacing Co., Ltd., 68 Hagley Road, Edgbaston, Birmingham, 16, respectively (recommended).
- Southgate, Middx.**—Widening of the bridge over Pymmes Brook in Waterfall Road: Carriageways, Ltd., 91 Fox Lane, London, N.13, £9,485 (recommended).
- South Shields, Dur.**—Construction of roads and sewers on the Simonside estate (section 10), for B.C.: John Reid, borough engineer: Tarslag, Ltd., Bowesfield Lane, Stockton-on-Tees, £57,631.
- Spenborough, Yorks.**—Roads and sewers at Brooklyn Street, Cleckheaton, for B.C.: Isaac Timmins, Ltd., Dalton, Huddersfield, £3,935.
- Staffordshire.**—Construction of 600yd. of new carriageway and footpath to link the Lichfield Road, A.4124, and Waddens Brook Lane, B.4484, at March End, Wednesfield, and including 1,100yd. of surface water drain, for C.C. F. Jepson, county surveyor: D. B. Evans (Bilston), Ltd., Oxford Street, Bilston, Staffs.
- Stockport, Ches.**—Improvement of Mauldeth Road and improvement works at the junction of Hillgate and Hindley Street, for B.C.: Bituminous Surfacing (1953), Ltd., Lime Bank Street, Manchester, 12, £8,674 and £825, respectively (recommended).
- Swindon, Wilts.**—Completion works on stage VI and VII of the Park North neighbourhood and stage IVa of the Park South neighbourhood, for B.C.: Direct Labour (recommended, subject to Ministry approval). Estimated cost £14,110, £20,657 and £10,432, respectively.
- Tunbridge Wells, Kent.**—Making-up Bretland Road and Bretland Terrace, for B.C.: T.H. (Contractors), Ltd., Quarry Wood, Aylesford, Maidstone, £3,916 (recommended).
- Weston-super-Mare, Som.**—Road construction, comprising kerbing, channelling, concrete flag paving to footways (approximately 1,361 sq. yd.) tarmacadam surfacing to carriageway (approximately 2,704 sq. yd.) and other incidental works at Dunkery Road, Polden Road and Purn Road, for B.C.: J. R. Freer-Hewish, borough engineer: Robert Hobbs and Co., Plantation Works, Portbury, Bristol.
- Wood Green, Middx.**—Construction of roads and sewers on the Bounds Green Industrial Estate, for B.C.: Carriageways, Ltd., 91 Fox Lane, London, N.13, £47,560 (recommended).

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Clackmannanshire.—Construction of a septic tank, three manholes and connecting pipe

work at Lower Mains, Dollar, for C.C. Babbie, Shaw and Morton, consulting engineers, 17 Blythwood Square, Glasgow, C.2: Alexander Todd, 71 Deepark, Sauchie, Alloa, Clackmannan.

Eastleigh, Hants.—Construction of the following works which form part II of the Chickenhall sewage works extension scheme, for B.C.: (a) One reinforced concrete primary settlement tank, 80ft. internal diameter by 11ft. 6in. average depth; (b) one reinforced concrete final settlement tank, 80ft. internal diameter by 7ft. average depth; (c) one recirculation pumphouse and sump; (d) one sludge pumphouse; (e) sludge drying areas, pipework and other ancillary works. E. J. Tapley, borough engineer and surveyor: Southern Counties Construction Co., Ltd., 204 London Road, Waterloo, Hants, £55,957 (subject to Ministry approval).

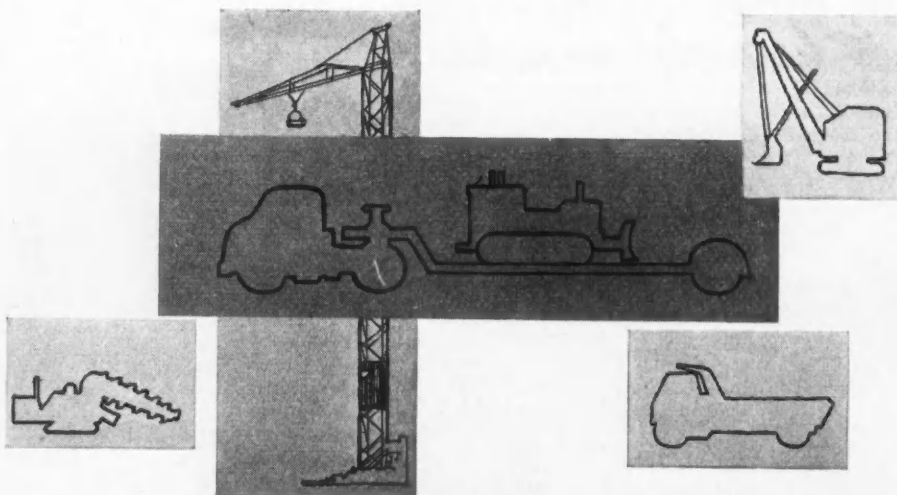
Gravesend, Kent.—Construction of the Mark Lane overflow sewer, G 23/2, contract I, comprising the laying of 830yd. of 57in. concrete pipe, 70yd. of 54in. and 42in. steel pipe, 600yd. of twin 54in. steel pipe supported on piles, a stormwater overflow chamber, a reinforced concrete culvert and apron in the River Thames, and other ancillary works, for B.C.: H. Humphreys and Sons, consulting engineers, Victoria Station House, Victoria Street, Westminster, London, S.W.1: Marples, Ridgway and Partners, Ltd., 2 Lygon Place, London, S.W.1.

Liverpool.—Supply and erection of three humus tank scrapers at South sewage disposal works, for City Council: William E. Farrer, Ltd., Crown Works, Welby Road, Hall Green, Birmingham, 28, £6,729 (recommended).

Marshland, Norfolk.—Construction of a prefabricated sewage disposal works, together with sewers and the installation of w.c.s in existing houses at The Wroo, Emneth, for R.D.C.: R. D. Wormald, architect: F. H. Simmonds, Church Road, Walsoken, Wisbech, £6,733 (accepted); N. Clarke, £6,799; E. S. Tinkler, Ltd., £7,180; J. A. Sandover and Co., £7,425.

Melton Mowbray, Leics.—Extensions and additions to the sewage disposal works at Melton, for U.D.C.: Holloway Bros. (London), Ltd., 157 Millbank, London, S.W.1 (recommended). Estimated cost £89,482.

North Walsham, Norfolk.—Extension of sewer, Happisburgh Road, for U.D.C., comprising



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laying of approximately 320yd. of 9in. diameter and 360yd. of 6in. diameter glazed stoneware sewer, together with appurtenant works. L. J. Foster, surveyor: Plumbly and Gaze, Ltd., Bacton Road, North Walsham, £3,195 (accepted); W. A. G. Johnson, £3,484; J. Nunn and Sons, £3,995; Edward J. Edwards (Norwich), Ltd., £4,362; A. R. Cleghorn and Co., Ltd., £5,846. Work about to commence.

Prestwich, Lancs.—Construction of sludge drying beds, humus tanks, effluent pumping station, effluent drain, reconstruction of culvert, river bank protection works, and other incidental work, contract three, for B.C. Wilcox, Raikes and Marshall, consulting engineers, 33 Great Charles Street, Birmingham, 3; A. C. Brew, Ltd., 653 Liverpool Road, Irlam, Lancs.

Reading, Berks.—Following works, for B.C.: Supply of flow control and measuring equipment (contract W.M.10) for the proposed sewerage and sewage disposal works—Lea Recorder and Co., Ltd., Parliament Mansions, Abbey Orchard Street, Victoria Street, London, S.W.1, £10,975; laying of foul sewer at Clevedon Road and Elsiey Road—Mexfield Building Co., Ltd., London, £5,724 (recommended, subject to Ministry approval).

Smethwick, Staffs.—Reconstruction of a further length of sewer in Stoney Lane, for B.C.: M. A. Boswell (Contractors), Ltd., Tipton (recommended, extension of contract). Estimated cost £7,971.

Southgate, Middx.—Works in connection with the Northern Main surface water sewer, for B.C.: T. Cleary, 29 Elgin Avenue, Kenton, Middx., £12,528 (recommended).

Sowerby Bridge, Yorks.—Construction of approximately 21yd. of 48in. diameter concrete sewer, 125yd. of 45in. diameter concrete sewer, 158yd. of 10in. diameter spun-iron sewer, three manholes, three hatch-boxes, one storm overflow and appurtenant works for old causeway sewers, for U.D.C. Keith Robson, engineer and surveyor, J. W. Mitchell and Sons, Ltd., Arden Works, Fenton Road, Halifax, £12,404. Work commencing March.

Towcester, Northants.—Main drainage of Towcester and Paulerspury, T32/3, contract 1, for R.D.C., comprising the construction of approximately nine miles of 6in. to 18in. diameter sewers and rising mains, two sewage pumping stations, a sewage disposal works, and other ancillary works. Howard Humphreys and Sons, consulting engineers, Victoria Station House, Victoria Street, London, S.W.1; Chapman and Dowd, 71 Nelson Street, Birmingham, 1, £179,083 (subject to Ministry approval).

Wolverhampton, Staffs.—Ditching and drainage scheme at Lower Pendeford Farm, for

B.C.: A. W. Mole, Ltd., £1,908 (recommended, subject to Ministry approval).

Worthing, Sussex.—Provision of the following for the East and West sewage disposal works, for B.C.: Three centrifugal sewage pumps—Sigmund Pumps, Ltd., 106 Terminal House, 52 Grosvenor Gardens, London, S.W.1, £6,822; five centrifugal sewage pumps—W. H. Allen, Sons and Co., Ltd., Queens Engineering Works, Bedford, £19,247; five sets of scraper mechanism for five 50in. diameter sedimentation tanks and four sets of scraper mechanism for four 70in. diameter sedimentation tanks—Templewood Hawksley, Ltd., 2 Buckingham Avenue, Slough, Bucks., £13,008 and £13,018, respectively (recommended).

STREET LIGHTING

Enfield, Middx.—Erection of 102 group A columns complete and removal of 71 existing columns, for B.C.: Abacus Engineering, Ltd., Russell Chambers, King Street, Nottingham.

Weymouth, Dorset.—Supply and erection of lighting columns for extending the system of Festival lighting in the Esplanade Road between the King's statue and the Harbour Pleasure Pier, for B.C.: Revo Electric Co., Ltd., Tipton, Staffs. Estimated cost £4,800 (recommended).

Woolwich.—Supply and erection of steel and concrete lamp columns for side street lighting programme, for B.C.: Harland and Wolff, Ltd., 9 Whitehall, London, S.W.1, £9,047 (recommended, fixed-price tender).

OPENCAST MINING

N.C.B.—Contracts let in connection with opencast coal production during December:

Wentworth Plant Depot: Works at regional laboratory—Boswell-Hague, Ltd.

Portland Disposal Point: Improvements to canteen and offices—William Plowman and Co., Ltd.

Denby Disposal Point: Installation of weighbridge and weighhouse and other works—William Plowman and Co., Ltd.

GOVERNMENT CONTRACTS

Admiralty.—Particulars of contracts over £1,000 in value placed by Civil Engineer-in-Chief's Department:

Middlesex: insulated rooms—J. Murphy and Sons, Ltd., London, N.4.

Somerset: housing—A. Hoskins and Sons (Street), Ltd., Street, Somerset.

Warwickshire: general repairs—H. Clarke and Sons, Ltd., Coventry.

Hampshire: renewal of steel sashes: The Crittall Manufacturing Co., Ltd., Southampton.

Fife: extension to building—Crudens, Ltd., Musselburgh.

Argyll: extension of runways—Tarmac Civil Engineering, Ltd., Wolverhampton.

Air Ministry.—Contracts to the value of £500 or over for the two weeks ended Jan. 1:

Building work: Lyneham, Wilts.—A. J. Dunning and Sons (Weyhill), Ltd., Weyhill, Andover, Hants; Marham, Norfolk—Kerridge (Cambridge), Ltd., Sturton Street, Cambridge; Headley Court, Epsom, Surrey—Lavender McMillan (Contractors), Ltd., 54 Cheam Common Road, Worcester Park, Surrey; Brampton Park, Huntingdon—A. J. G. Potter and Sons, Ltd., Stanwick, Wellingborough, Northants; Waddington Lincs.—Bernard Pumfrey, Ltd., Winterton Works, Lea Road, Gainsborough, Lincs.; Scampton, Lincs.—A. Richmond and Sons, Ltd., West Street, Retford, Notts.; Prestwick Airport, Ayrshire—W. and J. R. Watson, Ltd., Romano House, Station Road, Corstorphine, Edinburgh, 12.

Aviation fuel installations: Leonfield, Yorks.—F. Shepherd and Son, Ltd., Blue Bridge Lane, York.

Roads—resurfacing, etc.: West Malling, Kent—Roadworks (1952), Ltd., 57-61 Commercial Road, Ipswich, Suffolk.

Provision of foundations, etc., and exterior services to buildings: Seedaseer Lines, Aden—The Consolidated Contractors, Co., P.O.B. 307, Aden.

Artificers' work: Pitreavie Castle, Dunfermline, Fife—Andrew Crockett, Ltd., 1-2 Cherry Bank, Dunfermline, Fife; Norton, Sheffield—W. Malthouse, Ltd., Derbyshire Lane, Sheffield, 8.

Installation (air-conditioning): R.A.F. Station, Ayios Nicolaos, Cyprus—Saunders and Taylor, Ltd., Thermair House, 97 Chapel Street, Manchester, 3.







Installation (generating sets): Khormaksar, Aden—Mirrlees, Bickerton and Day, Ltd., 32 Duke Street, St. James, London, S.W.1.


Installations (electrical): R.A.F. Stations within Headquarters, Air Ministry Directorate General of Works, No. 2 Works Area, Angusfield House, Queens Road, Aberdeen—J. Scott and Co. (Electrical Engineers), Ltd., 80/110 Finnieston Street, Glasgow, C.3; Carnaby, Lindholme, Yorks.—City Electrical Co., 6-8 Emerald Street, London, W.C.1.

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Metropolitan Police.—Recent contracts placed include:

Alterations to form additional administrative accommodation: Harrow Road Police Station—Claude Bastable, Ltd., £1,144.

Internal redecorations: Dickenson House and Womersley House, Hornsey—Geo. Butters and Sons, £1,846.

Internal redecorations: Bow Street Court—South London Decorators, Ltd., £2,275.

Ministry of Finance, Northern Ireland.—Contracts exceeding £250 in value placed during the period Dec. 21 to Jan. 1, inclusive:

External and internal painting and cleaning: R.U.C. Station, Forkhill, Co. Armagh—J. S. McCullough, Canal Street, Newry.

Provision water supply to lock-keeper's house: Portora, Enniskillen—Wilson and Ward, 17 Westville, Enniskillen.

Supply, etc., structural steelwork to hostel: Greenmount Agricultural College, Muckamore—R. J. McKinney, Ltd., 195-201 York Road, Belfast, 15.

Provision of concrete foundations, etc.: Greenmount Agricultural College, Muckamore—Mairs Bros., 12 The Square, Ballyclare.

Periodical—glazing work and supplies: Addresses in N. Ireland—J. Frackelton and Sons, Ltd., 9 Victoria Square, Belfast, 1.

Supply, etc., 200 writing tables: Ministry of Finance Stores, 18-24 Tomb Street, Belfast, 1—J. Flanagan and Son, Ltd., Irish Street, Richhill, Co. Armagh.

Electrical installation—new intensive rearing house: Greenmount Agricultural College—J. Kilpatrick and Son, Ltd., 75 Great Victoria Street, Belfast, 2.

Ministry of Works.—Contracts placed for week ended Dec. 19:

Buckinghamshire: United States Air Force Base, Denham—electrical services—General Electrical Maintenance Co., 20 High Street, Pinner, Middx.; heating, domestic hot water, gas and ventilation services—C. J. Jefferies, Ltd., 149a Lancaster Road, London, W.11.

Hampshire: Inland Revenue Office, Black Swan Buildings, Winchester—alterations and adaptations—H. Stevens and Co., Ltd., Millbank Works, Northam, Southampton.

Hertfordshire: Telephone Exchange, Hoddesdon—alterations and extensions—G. H. Miller and Co., Ltd., Sheridan Works, Fowler Road, Hainault, Essex.

Lanarkshire: Post Office Stores, Newhouse—provision of mechanics' workshop, female

staff lavatory, etc.—Scott and Co. (Builders), Ltd., 25/27 Dellburn Street, Motherwell.

London: Admiralty, Whitehall, S.W.1—modernisations (attendance on engineers)—Sykes and Son, Ltd., 8 Essex Street, Strand, W.C.2; General Post Office, King Edward Buildings, E.C.1—decoration work—Alfred Bagnall and Sons, Ltd., 106/8 High Street, Teddington, Middx.

Middlesex: National Physical Laboratory, Teddington—supply of vacuum pumps, etc.—Edwards High Vacuum, Ltd., Manor Royal, Crawley, Sussex; United States Air Force Base, Bushy Park, Teddington—electrical services—R. Langston-Jones and Co., Ltd., 38 High Street, Teddington; United States Air Force Base, Bushy Park, Teddington—heating, domestic hot water, gas and ventilating services—J. Sykes and Son (Heating Engineer), Ltd., Progress Works, Wellington Crescent, New Malden, Surrey; United States Air Force Base, South Ruislip—alterations and adaptations—George Wiggs and Sons, 117 St. Albans Road, Watford; Government Buildings, Yeading—repairs to stillage boards—T. C. MacFall, The Joinery, Smitham Station Approach, Coulsdon, Surrey.

Monmouthshire: Radio Research Station, Castleton—new office block, welding shop and alterations—Hinkin and Frewin, Ltd., High Cross, Rogerstone, Newport.

Surrey: National Assistance Board, Kingston By-pass Road, Hinchley Wood—internal cleaning decoration work—Spraycraft Co., Ltd., 61 Widmore Road, Bromley, Kent.

Warwickshire: P.O. Factory, D Block, Fordrough Lane, Birmingham—renewal of sanitary fittings and water services—Maddocks and Walford, Ltd., Tyburn Road, Erdington, Birmingham.

Post Office.—Contracts for duct laying, etc., works to the value of £500 and over placed during the two weeks ended Jan. 2:

Ashe Bros., 7 Marvell Avenue, Hayes, Middx.; J. E. Billings and Co., Ltd., 54 Beddington Lane, Croydon, Surrey; P. J. Byrnes, 168 St. Michaels Hill, Cotham, Bristol, 2; C. D. L. Construction Co., Ltd., Church Road, Egham, Surrey; A. R. Cleghorn and Co., Ltd., 34/36 Harvey Lane, Norwich, Norfolk; Crawford and Cryan, Ltd., 124 Stafford Road, Wallington, Surrey; P. Cusack and Co., 52 Parkside Way, North Harrow, Middx.; The Eden Construction Co., Ltd., English Damside, Carlisle, Cumb.

R. P. Gardner, Rainsbrook, Ashlawn Road, Rugby, War.; Henry Hemmings, Ltd., 129 Brigstock Road, Thornton Heath, Surrey; M. Leyden, 71 Manley Street, Scunthorpe, Lincs.; J. Murphy and Sons, Ltd., 43 Charteris Road, Finsbury Park, London, N.4; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; Northway Bros., Old Brickworks, Cardiff Road, Dinas Powis, Glam.; P. J. Parrott and Co., Ltd., Main Street, Methley, Leeds, Yorks.; William Press and Son, Ltd., 22 Queen Anne's Gate, Westminster, London, S.W.1; Regan and Almond, Ltd., 30 Sutton Road, Heaton-Norris, Stockport, Ches.; D. J. Ryan and Sons, Ltd., Market Hall Chambers, Red Street, Carmarthen; Douglas Shields, Ltd., 1 Carlin Gate, Blackpool, N.S. Lancs.; Stewarts Estates (Aberdeen), Ltd., Bridge-of-Don, Aberdeen; D. J. Sullivan (Bristol), Ltd., 16 Burlington Road, Redland, Bristol, 6; Worthington (Contractors), Ltd., 81 Shaw Street, Liverpool, 6.

War Department.—Contracts placed for the week ended Jan. 1:

Berkshire (Shrivenham): roadwork—Constable Hart and Co., Ltd., Portsmouth; (Didcot and Milton): painting and decorating—Fields, Ltd., Reading.

Devon (Exeter): miscellaneous—H. E. Hansford, Honiton; (Honiton): redecoration—T. H. Kenyon and Sons, Ltd., London, W.9.

Essex (Potton Island): building—Mann and Robinson, Shoeburyness.

Hampshire (Tidworth): building—W. E. Chivers and Sons, Ltd., Devizes; (Middle Wallop): painting and decorating—C. A. Hayes and Sons (Painting), Ltd., Bristol; (Tidworth): electrical—R. F. Webb, Ltd., Winchester.

Oxfordshire (Bicester): drainage—U.K. Construction and Engineering Co., Ltd., Liverpool.

Shropshire (Donnington): roadwork—Tarslag, Ltd., Wolverhampton.

Staffordshire (Sudbury): recreation grounds—Maxwell M. Hart (Glasgow), Ltd., Manchester.

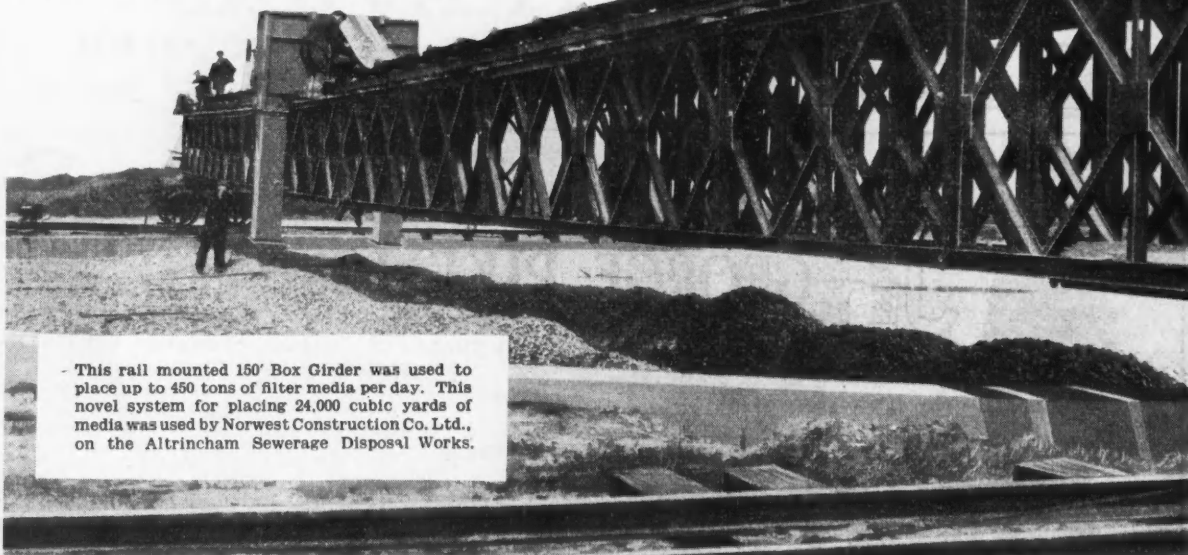
Surrey (Brookwood): ranges—Rice and Son, Ltd., London, S.W.9.

Various sites: wood poles impregnation—Cobra (Wood Treatment), Ltd., London, N.W.3.

Warwickshire (Kineton): building—Avon Building Co., Warwick.

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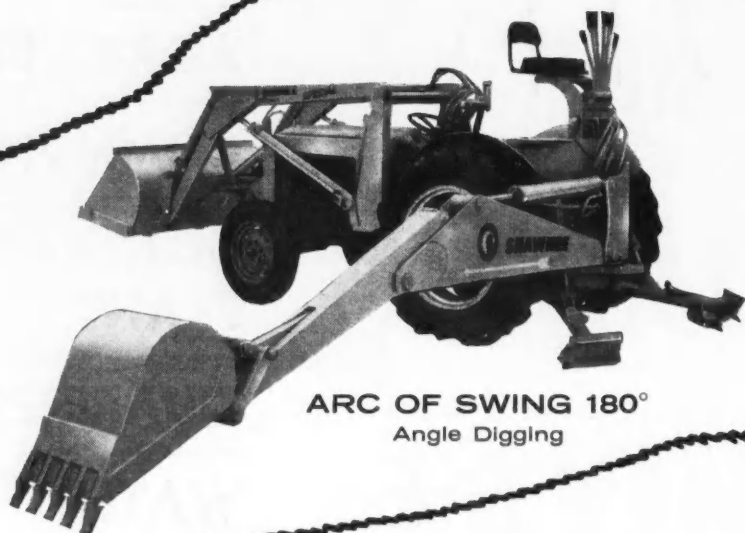
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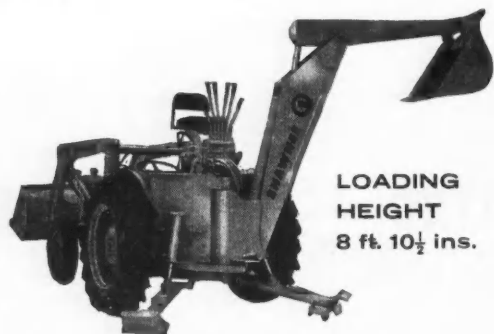
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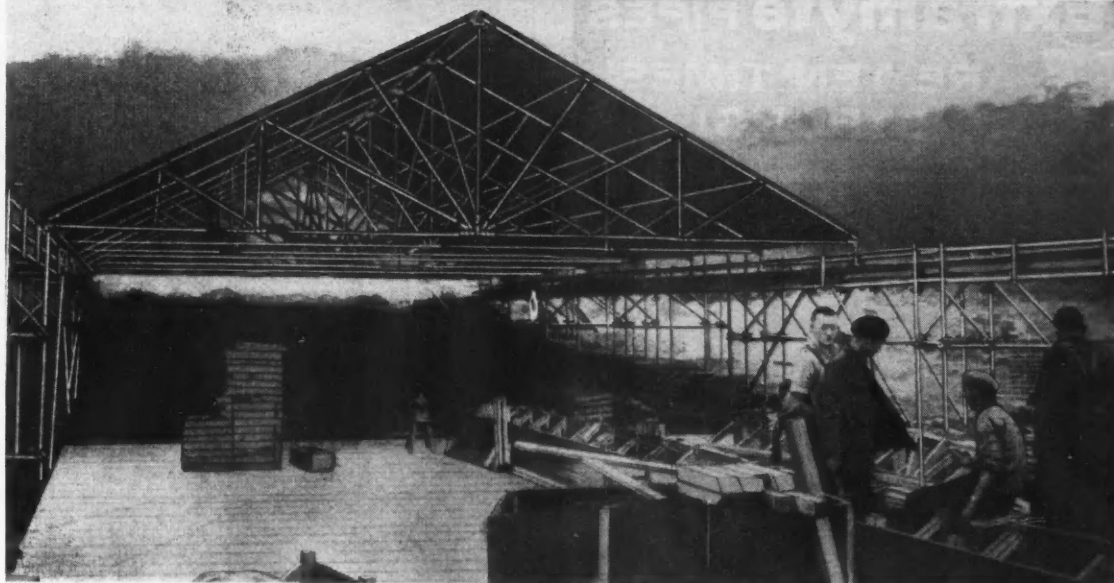
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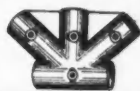
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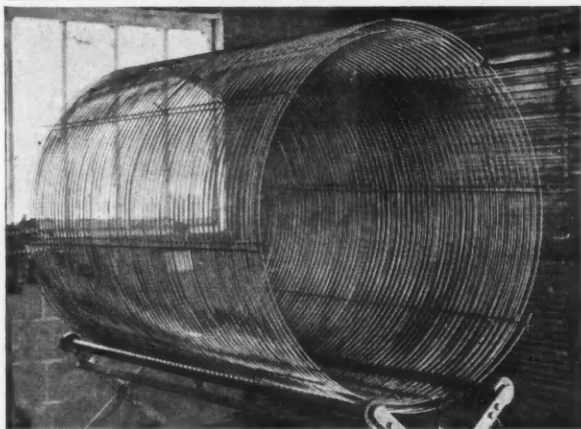
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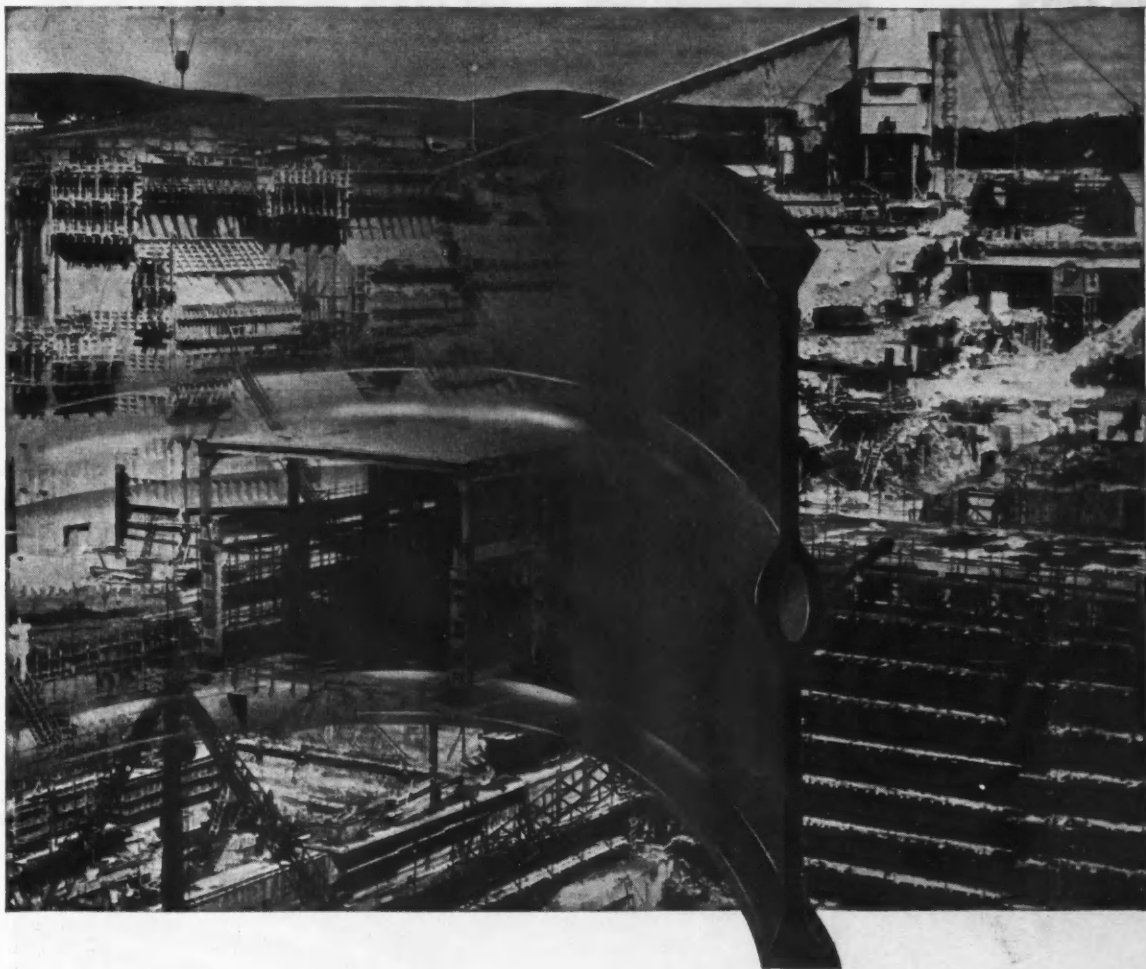
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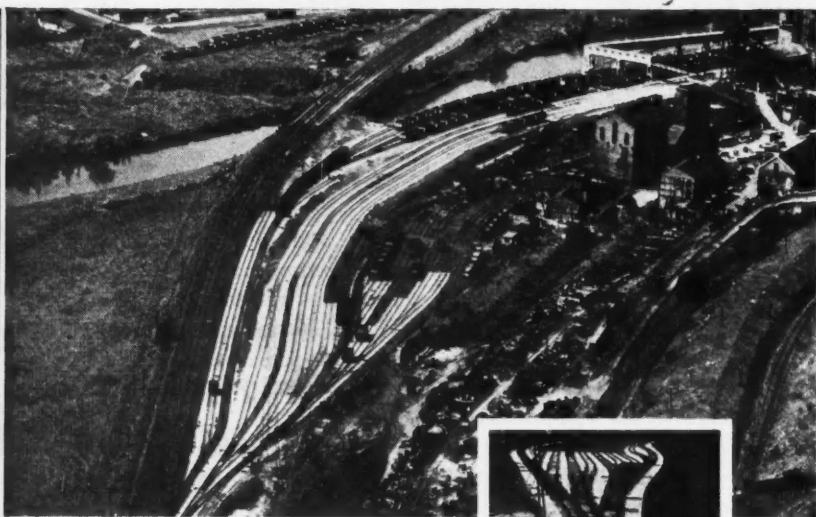
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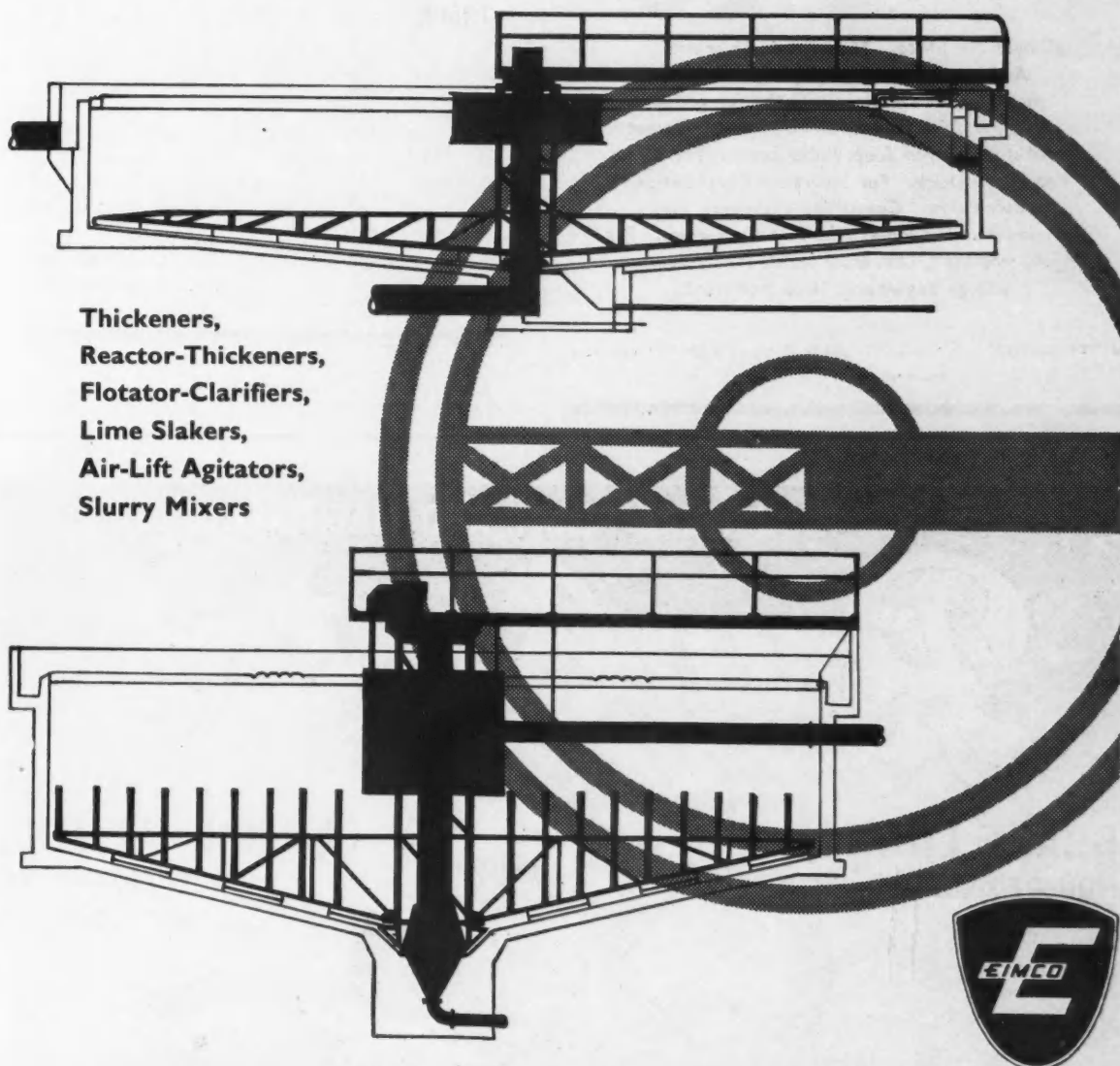
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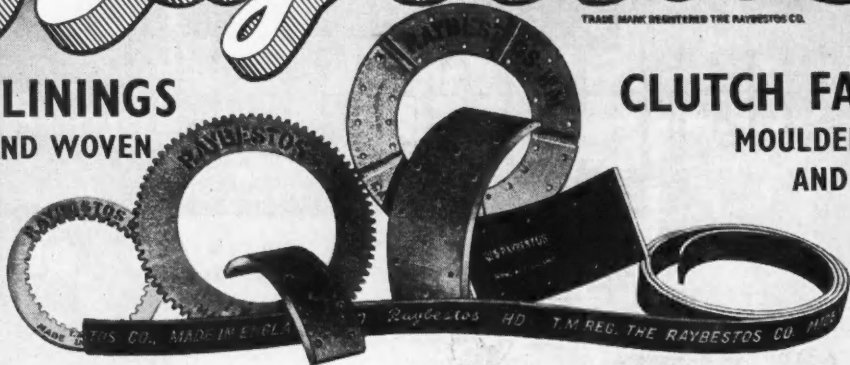
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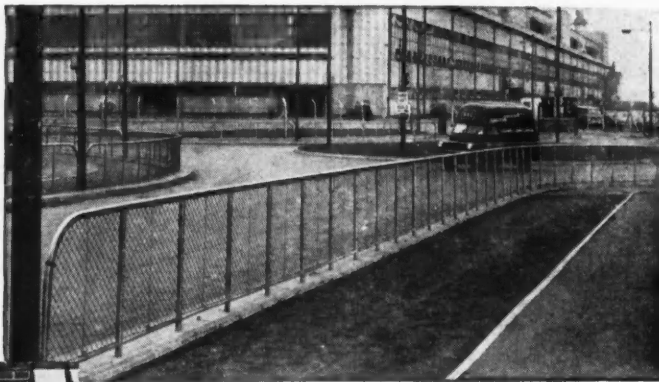
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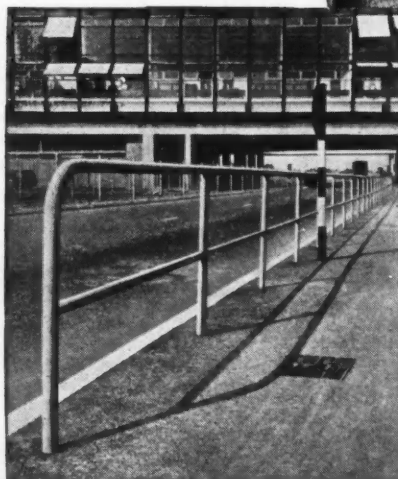
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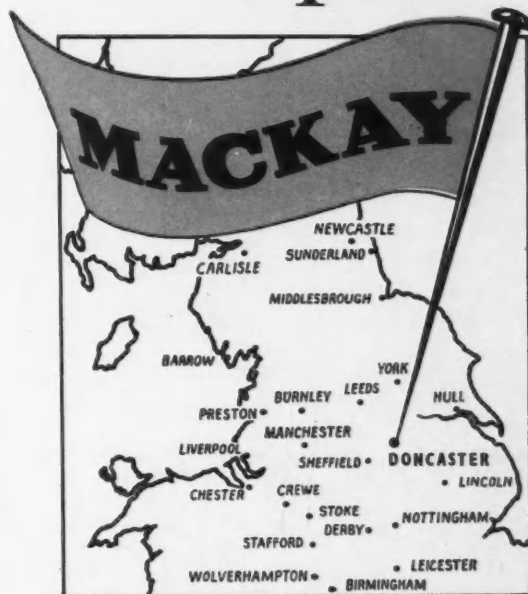
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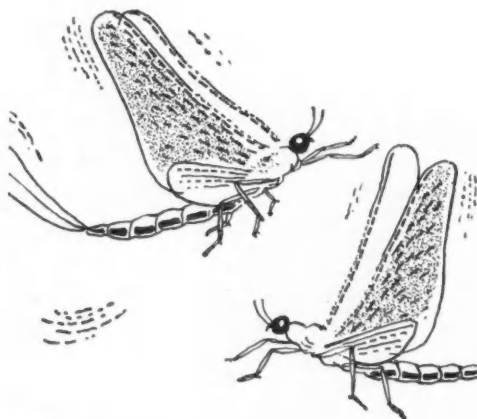


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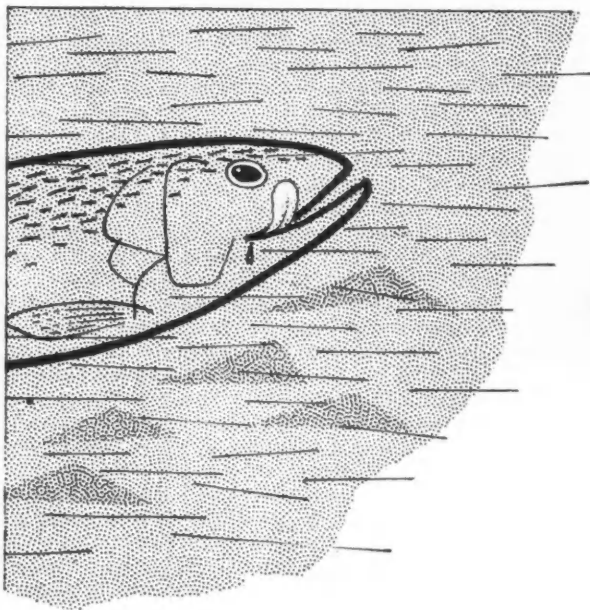
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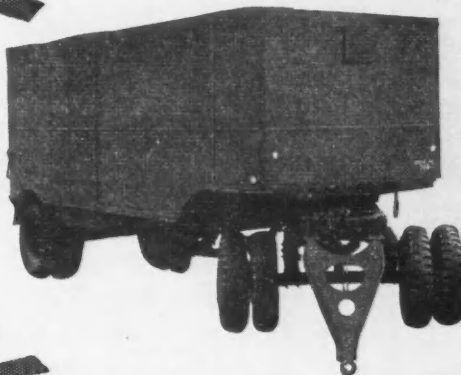
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(Continued from page 152)

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Diesel, £150.

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£295.

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Diesel, year 1959, £600.

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Engine, any equipment, £1,150.

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Petters AVA1, £30 each.

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First-class condition throughout.

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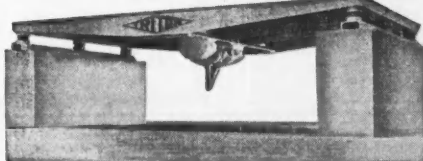
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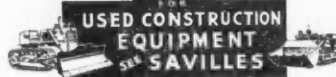
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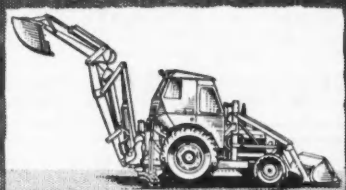
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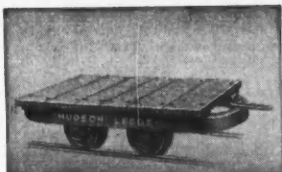
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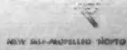
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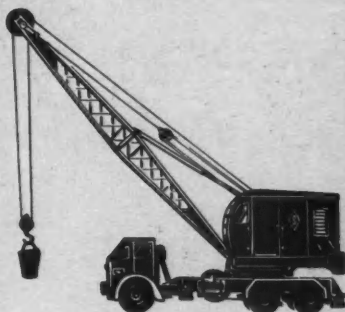
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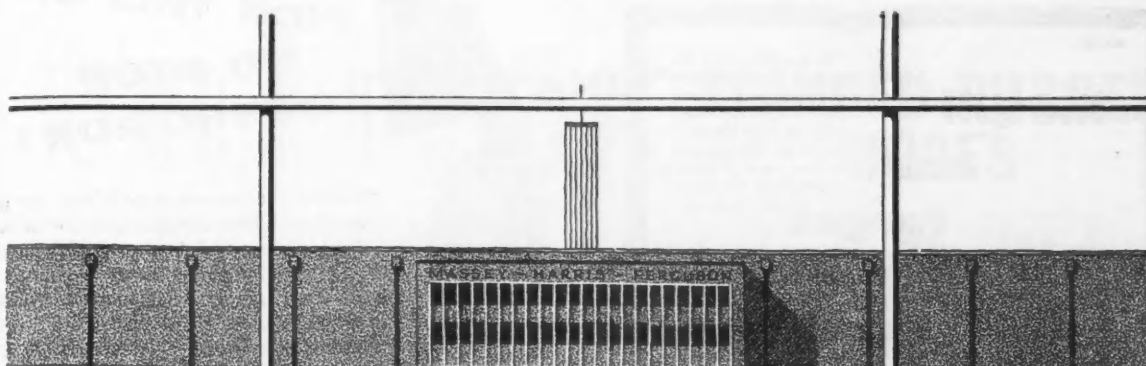
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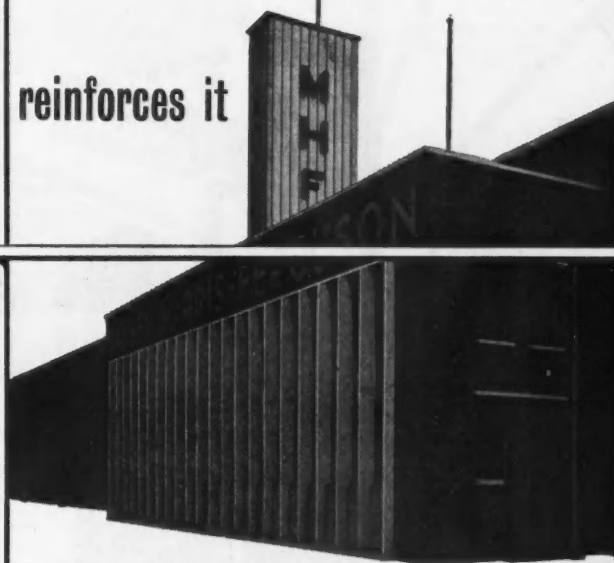
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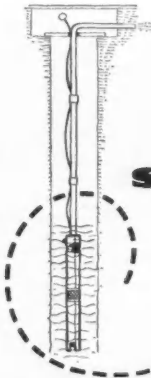
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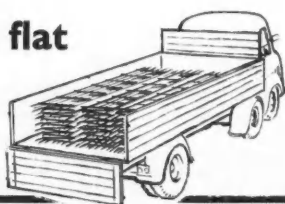


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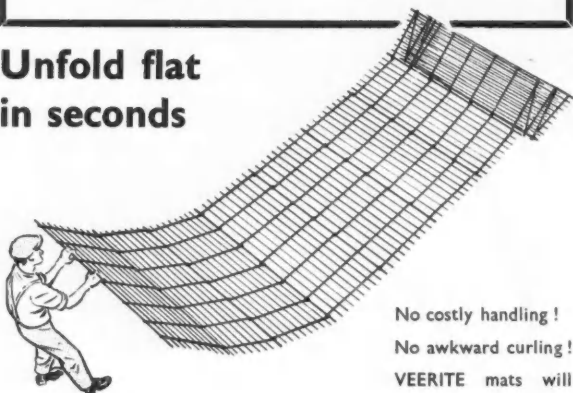
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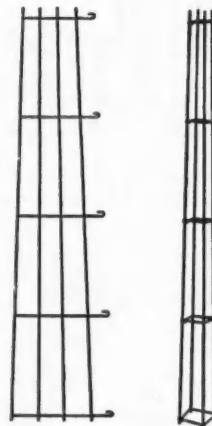
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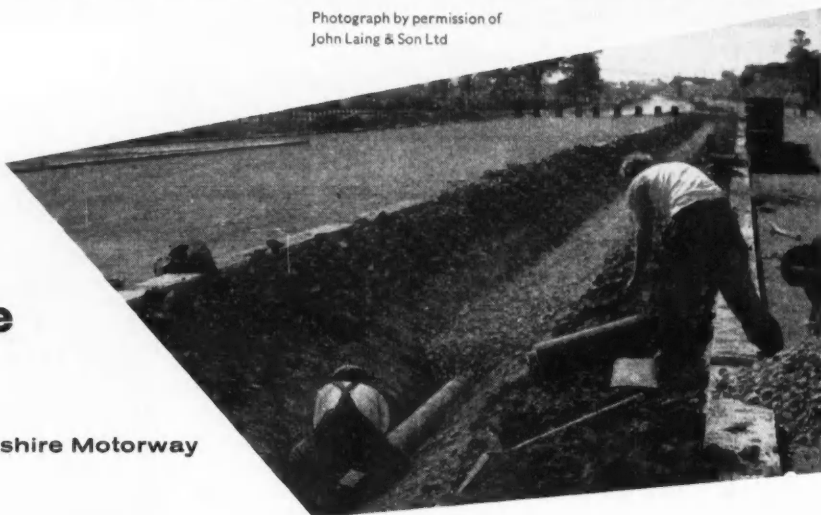
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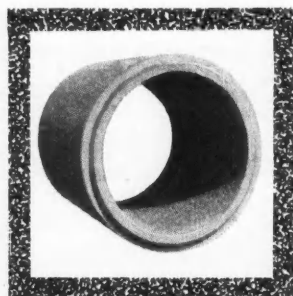
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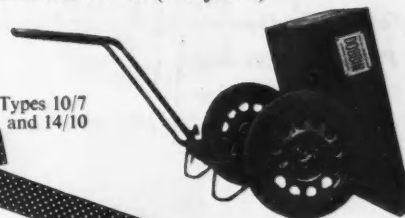
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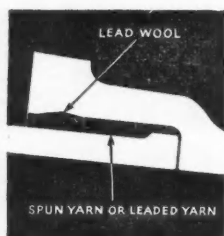
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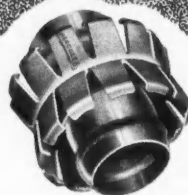
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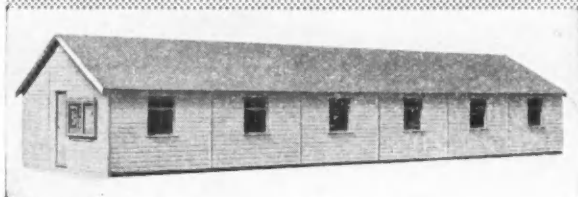
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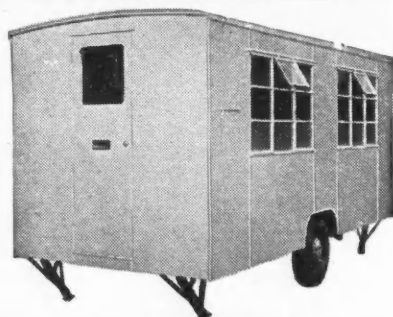
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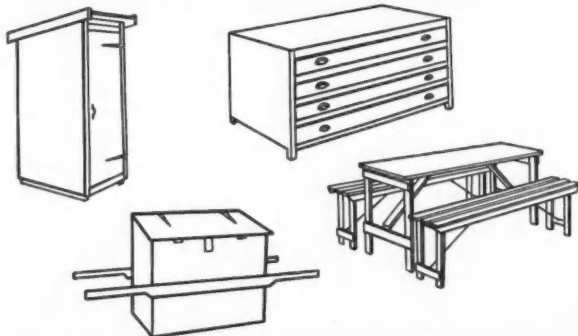
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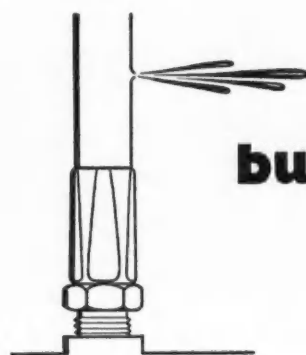
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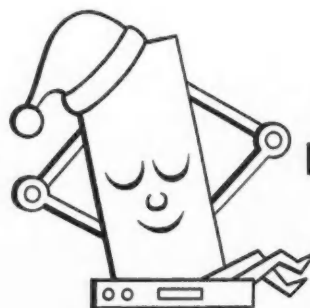
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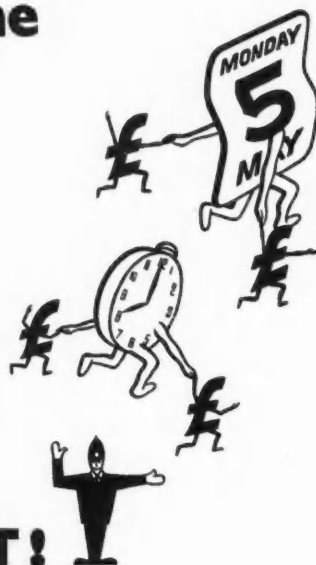
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burst hose
means
an



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machine

idle time

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away
with
money**



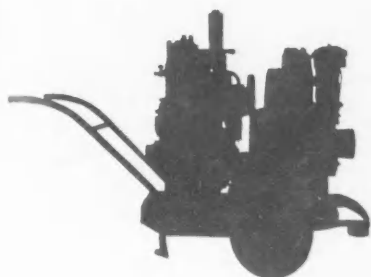
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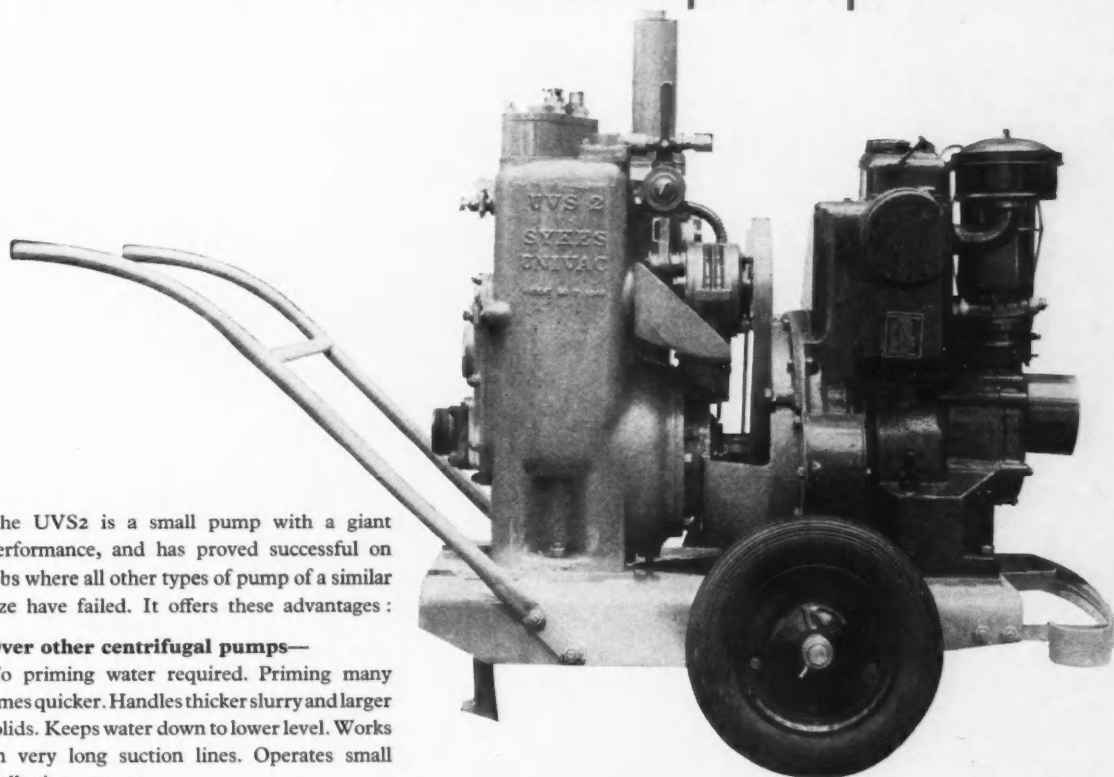
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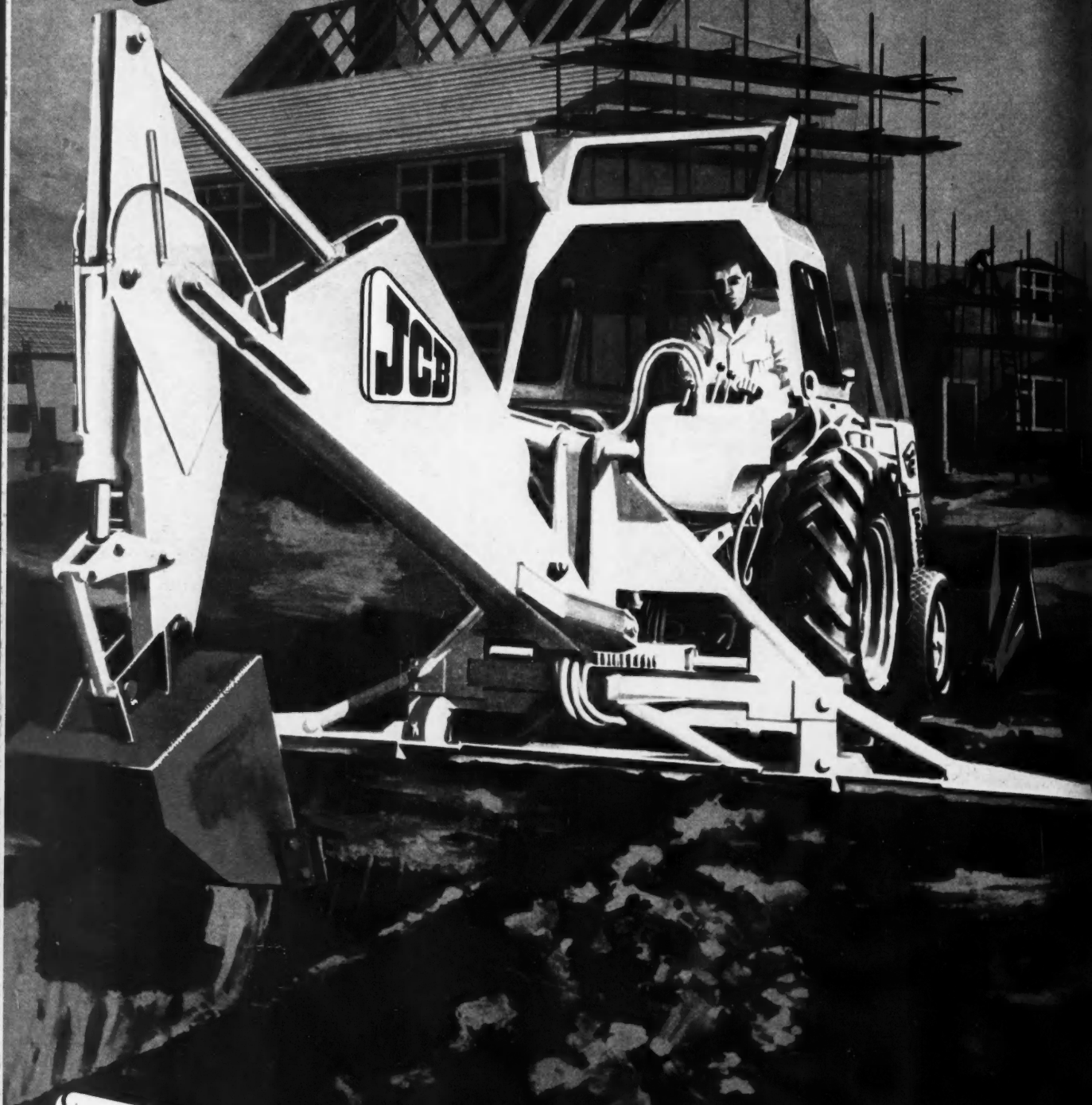
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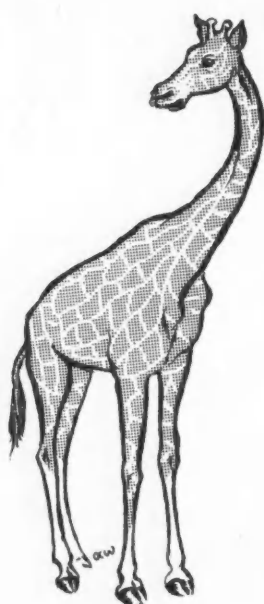
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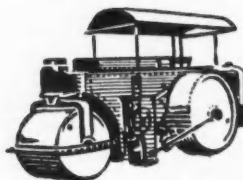


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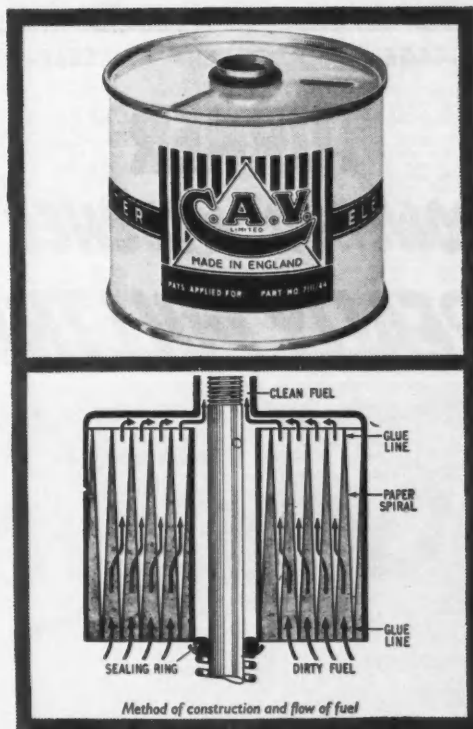
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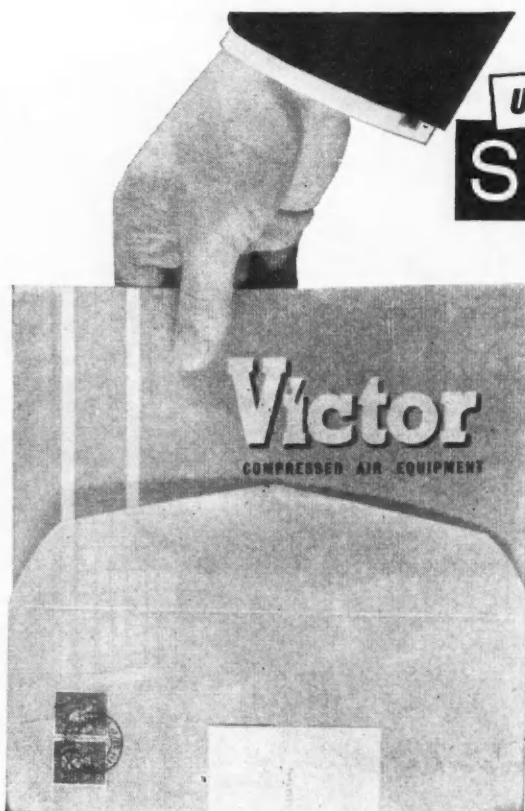
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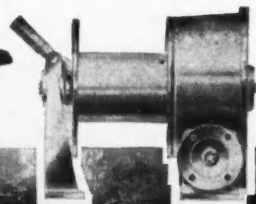
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DRINKWATER, W. W. (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)
GRUNT N. S. (EWELEME), LTD., Eweleme, Oxon. (Tel.: Eweleme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggins, broken stone, building sand.
HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.
HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4455) and Coronation Road, High Wycombe. (Tel.: 4360/11.) and at Gerrards Cross. Pits at Wraysbury (Middx.) and Iver (Bucks.).
JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand, aggregates, hardcore, asphalt, building and bulk excavation. (Tel.: Slough 20361/2/3.)
LONDON BALLAST CO., LTD., (Tel.: Paddington 5064.) 55A Porchester Terrace, London, W.2.
MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pitt, Little Marlow, Bucks. (Tel.: Marlow 379.)
STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)
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DINMORE GRAVEL AND STONE CO., LTD., 5A King Street, Hereford. (Tel.: Hereford 5523.) Suppliers of all grades of concrete aggregates, sand, pitching stone and hardcore.
HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)
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OLD RADNOR TRADING CO., LTD., Kingston. (Tel.: 11.) Granite and limestone aggregates, coated macadam, concrete products.
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel.: 961.) Salop.
WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For detls., see Leics.)
DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddadon 2456.) Producers and distributors of all grades of washed aggregate.
HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage. (Tel.: 775.) and at Hatfield. Gravel aggregates, concrete, plastering and building sand.
ST. IVES SAND AND GRAVEL CO., LTD., 12 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
WEBB, G., CAMBRIDGE. 35 Magrath Avenue, Cambridge. (Tel.: 3969/4353.) (See Cambridgeshire.)
WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead. (Tel.: Berkhamstead 1208/9.) Pits at Watford, Letchworth Buzzard, Heath and Roach, and Bedford.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For detls., see Leics.)
DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
FERRISAND AGGREGATES, LTD., Northampton Road Quarries, Rushden. (Tel.: 2354/5.) (See Northants.)
GRAVEL PRODUCTS (HUNTS), LTD., St. Neots, Hunts. (Tel.: 775.) and at Hatfield. Gravel aggregates, concrete, plastering and building sand.
NINE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough. (Tel.: 5534/5.) and Ship End Quarries, Wansford, near Peterborough. (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashon silica clay and sand.
ST. IVES SAND AND GRAVEL CO., LTD., 12 The Broadway, St. Ives. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.
WEBB, G., CAMBRIDGE. 35 Magrath Avenue, Cambridge. (Tel.: 3969/4353.) (See Cambridgeshire.)
WELFORD GRAVEL, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

KENT

BRISTED SAND PITS, Bristed, Kent (Tel.: 596.) London Office: 10A Ellery Street, S.E.13. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes etc.
BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hardcore, clinker, breeze blacks, etc.
CLUBB, J. LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concrete and building sand.
DIAMOND TRAD CO. (1938), LTD., Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarryowners; tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21 Old Bailey, London, E.C.4. (Tel.: City 7001-10 lines.)
DIAMOND TRAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarryowners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.)
HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051.) and at Folkestone and Harve, Pit at Lunford, near Larkfield. Gravel aggregates, concrete, plastering and building sand. Surecrete, precision-mixed concrete.
HARRIS, M. R. & SONS, LTD., Station Road, Paddock Wood, Kent. (Tel.: 385.) (See Sussex.)
ILFURY QUARRIES, LTD., Postley, Maidstone. (Tel.: Maidstone 5501/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandiisle, Milnthorpe. (Tel.: 3251/2.) Westmorland. (See Westmorland.)
BUCKTON QUARRY, Broken stone, all grades. (Tel.: Moseley 123.) Or write Main Road, Oldham.
CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.
CROFT GRANITE BRICK AND CONCRETE CO., LTD., West Bank, Widnes. (Tel.: 2656.) "Kubitzed" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatt" Wet Mix, filter media, concrete products.
CRODEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.
DUNNING AND SON, LTD. (See Shropshire.)
HARTLEY, JOHN W., LTD., Lundfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all constructional purposes.
HILTON GRAVEL AND SAND CO., LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)
HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester. (Tel.: Blackfriars 2777/8.)
PENMANMAWYR WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.
Liverpool and Preston Depots: Office: 7 Picketon Road, Liverpool, 15. (Tel.: Sefton Park 7261.) Manchester Depot: Office: Cornbrook Road, Manchester, 15. (Tel.: Trafford Park 381.)
ROUND-O QUARRIES, LTD., Helsby Street, Warrington. (Tel.: 34541-4 lines.) Building and concrete sand and stone.
TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)
TRENTHAM GRAVEL CO., LTD., Lorderley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 3045.) All sizes crushed or natural washed gravel. Twice washed sharp concrete sand. Plastering sand. Plant capacity: 2,000 tons per day.
WELFORD GRAVEL, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Local Office and pits, Chorley 3923.
WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.
X.L. GRANITE (INGLETON), LTD., Head Office: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London Office: Norwood Hill 115.) Best Leicester-shire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt road/rail delivery.
BRUNTINGTHORPE GRAVELS, LTD., Gilmorton, near Rugby. (Tel.: Lutterworth 46.) All sizes gravel aggregate, building and concrete sand to B.S.S., scientifically balanced ballast.
CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 561/2/3.) Granite aggregates to B.S.S. All sizes. Tarred and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.
CROFT GRANITE, BRICK AND CONCRETE CO., LTD., Croft, near Leicester. (Tel.: Narborough 2261-4 lines.) "Kubitzed" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatt" Wet Mix, filter media, concrete products.
DUSTON STONE QUARRIES, LTD., New Duston, Northamptonshire. (Tel.: Northampton 276 and 298; Duston 505.) (See Northamptonshire.)
ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 56682.) Works at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)
HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)
MOUNTBRET GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 56682.) Quarries at Mountbret, near Loughborough. Main pink granite a speciality. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

LEICESTERSHIRE

WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2127 and 2797.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Northamptonshire.)
WREAKE VALLEY GRAVELS, LTD., Asfordby, Melton Mowbray. (Tel.: Pits-Rotherby 25 or head office-Asfordby 262.) All grades washed aggregates and sand.

LINCOLNSHIRE

BULLIMORES SAND AND GRAVEL, LTD., South Witham, Grantham. (Tel.: Thilston 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.
BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bar, Chesterfield. (Tel.: 7130.) For details, see Derbyshire.)
CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, boggin. Ex-quarries or delivered.
DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2361.)
EAST MIDLANDS BUILDERS SUPPLY CO., 21 Castle-dyke West, Barton-on-Humber, Lincs. (Tel.: 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.
GIBBONS, F. B. AND SONS, LTD., Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 321/2383.) Pits at Langtoft, near Peterborough. (Tel.: Market Deeping 2310.) All grades washed sand and aggregates.
HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 8741.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)
PETERBOROUGH QUARRIES, LTD., Sandylands, Masey, Peterborough. (Tel.: Market Deeping 335-1 lines.) Quarry at Ropley, all grades of hardcore and broken stone. (See also Northamptonshire.)
POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand and aggregates. For "Supercrete" ready mixed concrete, phone Market Deeping 3132.
TRENTFORD GRAVELS, LTD., Head Office: Deansgrove, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For detls., see Leics.)
COX, H. AND SONS, LTD., 33 Southampton Way, Camberwell, London, S.E.16. (Tel.: Rodney 2215-3 lines.)
CROFT GRANITE, BRICK AND CONCRETE CO., LTD., 128-136 High Street, Edgware, Middlesex. (Tel.: Edgware 0076/7 and 1246.) "Kubitzed" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatt" Wet Mix, filter media, concrete products.
DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: Hampstead 8044-8.) Granite, limestone or slag, coated or not, all sizes and pitching, granite kerbs 230 galls, felspar quartz and other minerals by road or rail, or ex-London stock.
DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For details, see Dorset.)
DRINKWATER, W. W. (WILLESDEN), LTD., Dudden Hill Lane, Willemsden, N.W.10. (Tel.: GLADstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Slough, Heath, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)
HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122.) and at East Dulwich, Wadsworth Road, South London. Gravel aggregates, concrete, plastering and building sand.
KEEN, W. J. AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballasts, shingle and hardcore supplied.
LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.
READ, P. T., LTD., Downs Works, Amhurst Terrace, Hackney, E.8. (Tel.: Clissold 6971/2.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)
ROADS RECONSTRUCTION (1934), LTD., Stockley Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington. (Tel.: 961.) Salop.

MIDDLESEX

CROSS, GEO. C. AND CO., LTD., Ironbridge, Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Sand, ballast, shingle, hardcore, ashes, etc.
DRINKWATER, W. W. (WILLESDEN), LTD., Staines Rd., Hounslow Hn., Midx. (Tel.: Hounslow 6222/3.)
GRUNDON, S., 79 Hillingdon Road, Gillingham, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.
HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122.) and at Ashford and Brentford. Pit at Bedford, near Feltham. Gravel aggregates, concrete, plastering and building sand.
LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.
STUART MACKEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)
THAMES SAND AND GRAVEL CO., LTD., Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 23616.) Gravel aggregates, concrete, plastering and building sand.
WRAYSBURY SAND AND GRAVEL CO., LTD., Pits at Wraybury. (Tel.: Wraybury 164.) Gravel aggregates, concrete, plastering and building sand.

CONTRACTORS' GUIDE TO AGGREGATES

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)
HARPER AND THOMAS, LTD., Baynton Hill Quarry, Shrewsbury. (See Shropshire for details.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)
SALOP SAND AND GRAVEL SUPPLY CO., Adamston, Wellington (Tel. 961), Salop.
TERN HILL SAND AND GRAVEL CO., LTD., Alminston Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032) and Phoenix Works, Cardiff (Rhylwain 2360) for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.
MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Chepstow Road, Newport, Mon. (Tel.: Newport 5831/2.) Suppliers of all grades of concrete aggregates, road metal, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.
WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Colford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

MONTGOMERYSHIRE

HARPER AND THOMAS, LTD., Baynton Hill Quarry, Shrewsbury. (See Shropshire for details.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Adamston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
FRECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) Washed sand and gravel. Pitt: Feltwell.
JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.
THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 3243/4.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421-10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Dorchester 236.) Billing, Northampton. (Tel.: Coghenoe 464) for washed and graded aggregates to B.S.S.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.
BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Billing 236.) London office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)
BRAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S. Building sand, hardcore.
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMPSHIRE 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 234.)
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Products of building and walling stone, roadstone, hardcore, broken stone, ashes, sand, gravel and hoggins. Immediate delivery throughout Northamptonshire.
FERRERS AND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.
GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)
KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.
NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.
NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.
PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355-3 lines.) Eight quarries supplying all grades of hardcore and broken stone. Also Wansford at Wansford, Wansford, near Peterborough (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.
POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Portly Ford. (Tel.: Welford 256.)

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pwylly Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-y-n-Ial 27.) Crushed limestone and tarred macadam, all grades.

NORTH WALES

CHESHIRE AND NORTH WALES TARRIED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-y-n-Ial 43.) Hard, broken limestone, dry and coated to B.S.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunnall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 244.) (See Shropshire.)
ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)
ENSTON BROS., Llynas Isaf Quarry, Clynog Fawr, Caernarvon. (Tel.: Clynog Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Concrete Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Penawern and Gwydyr Quarries, Ltd., Trefriw, Llanwrst, Denbighshire. (Tel.: Llanwrst 38.)
PENMAENMAWR AND WELSH GRANITE CO., LTD., Quarries at Penmaenmawr. Tel. 2256/8, and at Trevor. (Tel.: Clynogfawr 223.) Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.
RUTHIN AND DENBIGH TARMACADAM CO., LTD., Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., 23 Colmore Row, Birmingham. (Tel.: Central 7408-4 lines), and Lunt Bros., Ltd., Bourneville (Tel. 2201-5 lines).
TERN HILL SAND AND GRAVEL CO., LTD., Alminston Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

NOTTINGHAMSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Barn, Chesterfield. (Tel.: 7130.) (For details, see Derbyshire.)
GLEN QUARRIES LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete, building sand, plastering sand and crushed gravel; could be collected ex-quarry or delivered.
JUNTHORPE GRAVELS (1958), LTD., (Tel.: Nottingham 7737/7; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed stone and sand to B.S.S.
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) Quarries at Hoveringham, Holme, Pierpoint Colwick, Bleanby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.
NEWARK GRAVEL AND CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.
SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421-10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Dorchester 236.) Billing, Northampton. (Tel.: Coghenoe 464) for washed and graded aggregates to B.S.S.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.
CURTIS, J. AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMPSHIRE 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 234.)
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)
GRUNDON, S. (EWELEME), LTD., Eweleme, Oxon. (Tel.: Eweleme 201.) London Office (Tel.: Urushere 4156.) All grades washed aggregates. Path hoggins broken stone, building sand.
HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.
WAYSURRY SAND AND GRAVEL CO., LTD., Station Rd., Theale, Reading, Berks. (Tel.: Theale 373.)

RADNORSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)
SALOP SAND AND GRAVEL SUPPLY CO., Adamston, Wellington (Tel. 961), Salop.

RUTLAND

BULLMORRES SAND AND GRAVEL, LTD., South Witham, Grantham, Lincs. (Tel.: Thilston 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.
GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171-15 lines.) (For details, see Nottinghamshire.)
KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.
PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355-3 lines.) Eight quarries supplying all grades of hardcore and broken stone. Also Wansford at Wansford, Wansford, near Peterborough (Tel.: Wansford 384/5.) Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

RUTLAND

POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SCOTLAND

KEIR AND CAWDELL, LTD., Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Farwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output, reliable deliveries.
BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.
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HARPER AND THOMAS, LTD., Baynton Hill Quarry, Shrewsbury. (Tel.: Baynton Hill 351.) High quality roadstone, chippings, concrete aggregates, hardcore and coated macadam. Large tonnages always available.
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD., Kingston (Tel. 11.) (See Herefordshire.)
SALOP SAND AND GRAVEL SUPPLY CO., Adamston, Wellington (Tel. 961), Salop.
TERN HILL SAND AND GRAVEL CO., LTD., Alminston Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)
TRENTHAM GRAVEL CO., LTD., Lordley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp, concrete sand. Plastering sand. Plant capacity 2,000 tons per day.

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ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunnes 351.) All sizes block, broken and aggregates. Tarrad and bituminous macadam. Ex-quarry or delivered.
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ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

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HULL AND GRAY, CO., LTD., Chaddes, Stoke-on-Trent. (Tel.: Chaddes 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Casarum Street, Manchester, 3. (Tel.: Blackfriars 2377/8.)
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CONTRACTORS' GUIDE TO AGGREGATES

STAFFORDSHIRE

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TRENTHAM GRAVEL CO., LTD., Lordsey Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concrete sand. Plastering sand. Plant capacity 2,000 tons per day.

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ALSFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand, also hoggins.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Litchfield. (Tel.: Coalville 1226/7/8; or London Norwood Hill 115.) (For details, see Leics.)
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DARBY'S SAND AND GRAVEL CO., LTD., Pit at Chippingham, Cambs. (See Cambs.)
DICKERSON, M., LTD., Teversham Corner, Newmarket Road, Cambridge. (Tel.: Cam. 56973/4.) (See Cambs.)
FRECKENHAM GRAVEL CO., LTD., Pit at Freckenham, Cambs. (See Cambs.)
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MACLAREN BROS. (KENNETT), LTD., Station Road, Kennett, Cambs. (Tel.: Kentford 333/4.) (See Cambs.)
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) (See Norfolk.)
WEBB, G., CAMBRIDGE, 35 Magrath Avenue, Cambridge. (Tel. 3969/4353.) (See Cambs.)

SURREY

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside Ascot, Berks. (Tel. 1026/7.) (See Berkshire.)
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GILSON, S. C. AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)
HALL AND CO., LTD., 16 Chapel Road, Worthing. (Tel.: Worthing 7840.) Other main depots at Bexhill, Bognor, Crowborough, East Grinstead, Eastbourne, Horsham, Hove and Seaford. Pits at Washington, Crumblies, near Eastbourne, Chichester, Rye Harbour, Midhurst, Shoreham and Portlady. Gravel aggregates, concreting, plastering and building sand, Surcrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., West Station Goods Yard, Bexhill. (Tel. 611; Cavendish Place, Eastbourne. (Tel. 3800); Dominion Road, Worthing. (Tel. 8522); Whitbread Lane, Northiam. (Tel. 2211); Station Goods Yard, Haywards Heath. (Tel. 1750); Crawley Road, Horsham. (Tel. 3360); The Horner, Chichester. (Tel. 4181). All grades aggregates, hardcore, clinker, ashes, etc.
WRIGHT, C., AND SONS (BTON), LTD., 19 Bristol Gardens, Brighton, 7. (Tel.: Brighton 63357 and 62406.) All-in ballast, washed and crushed shingle, sand, ashes, hardcore, chalk, bricks, etc.

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BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.
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COOPER, J. A. (TRANSPORT), LTD., Hurley, near Atherstone, Warwick. (Tel.: Hurley 225.) Shale pit at Newdigate Colliery, Bedworth, near Coventry. Shale, hardcore and clinker ash as dug or graded. Delivered to site or loaded into customers' own vehicles by arrangement.
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JUDKINS, LTD., Granite Quarries, Tuttle Hill, Nuneaton. (Tel.: Nuneaton 3411—10 lines.) All sizes washed granite aggregates, tarred and bituminous macadam. Slab material specially.
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire and Northamptonshire.)

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BROOMBYE, LTD., Sandisle, Milnthorpe, Westmorland. (Tel.: Milnthorpe 3251/2.) All grades washed crushed gravel, sand, limestone, granite chippings, pitching, tarmac, macadam, rocky stone, etc.
ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) For details, see Cumberland.

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AMEY'S AGGREGATES, LTD., Lower Wootton, Bours Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Thorpe, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.
BULL BROS. & AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)
COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: 4717/4874.) (See Glos.)
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

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MOREYS (VERWOOD), LTD., Verwood, Wimbome, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggins path gravel.
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BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.
BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
DINMORE GRAVEL AND STONE CO., LTD., 5A King Street, Hereford. (Tel.: Hereford 5523.) Suppliers of all grades of concrete aggregates, sand, pitching stone and hardcore.
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HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)
NASH ROCKS, STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) (See Herefordshire.)

YORKSHIRE

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GLEN QUARRIES, LTD., Central Chambers, Weligate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel could be collected ex-quarry or delivered.
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details see Derbyshire.)
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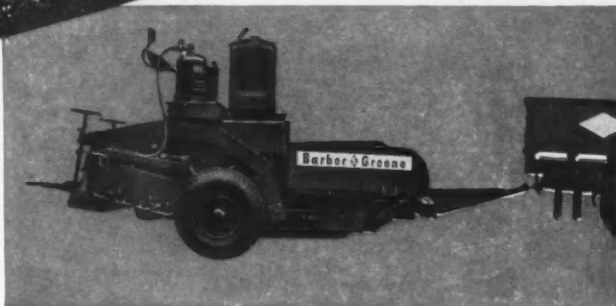
London: Printed and published by the Proprietors, The Contract Journal Company, Ltd., 32 Southwark Bridge Road, S.E.1.
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Barber-Greene



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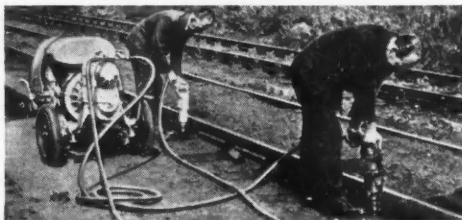
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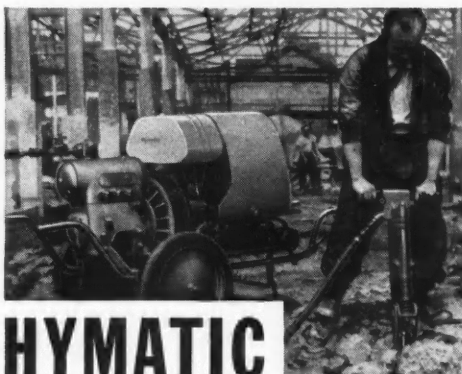


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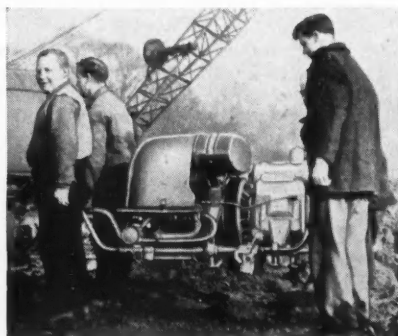
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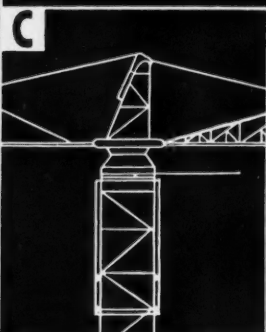
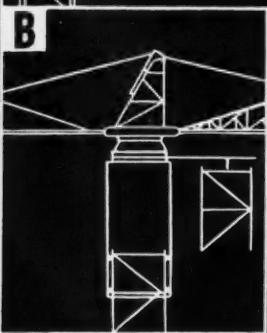
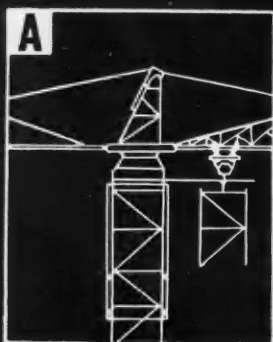
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- C** Inserting Tower Section into the Telescopic Frame and securing it.

TYPES	205.T	306	405.A	405.B	607.B	607.C	607.D	707.A	707.B	707.C	805.A	805.B	805.C
Capacity in metre/tons	4 m/t	9 m/t	14 m/t	14 m/t	30 m/t	25 m/t	22 m/t	50 m/t	40 m/t	30 m/t	60 m/t	50 m/t	45 m/t
Radius	34 ft.	49 ft.	66 ft.	72 ft.	66 ft.	82 ft.	92 ft.	66 ft.	82 ft.	99 ft.	66 ft.	82 ft.	99 ft.
S.W.L. at maximum radius	8 cwt.	12 cwt.	14 cwt.	12 cwt.	30 cwt.	20 cwt.	15 cwt.	50 cwt.	30 cwt.	20 cwt.	60 cwt.	40 cwt.	30 cwt.
Maximum S.W.L.	10 cwt.	24 cwt.	50 cwt.	50 cwt.	60 cwt.	60 cwt.	60 cwt.	100 cwt.	100 cwt.	60 cwt.	120 cwt.	120 cwt.	60 cwt.
Maximum S.W.L. Radius	28 ft.	24 ft.	24 ft.	22 ft.	36 ft.	33 ft.	29 ft.	36 ft.	29 ft.	40 ft.	35 ft.	31 ft.	56 ft.
Height under hook "free travelling"	40 ft.	89 ft.	100 ft.	100 ft.	135 ft.	135 ft.	135 ft.	135 ft.	135 ft.	135 ft.	120 ft.	120 ft.	120 ft.
Height when "Static"	—	300 ft.	500 ft.	500 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.	600 ft.
Height when "Climbing"	—	N	O	L	I	M	I	T	A	T	I	O	N
Maximum lifting speed	100 f/m	150 f/m	245 f/m	245 f/m	200 f/m	200 f/m	200 f/m	200 f/m	200 f/m	200 f/m	200 f/m	200 f/m	200 f/m

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